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# An Inventory of Maine's Telecommunications System

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Maine State Planning Office  
July 1985

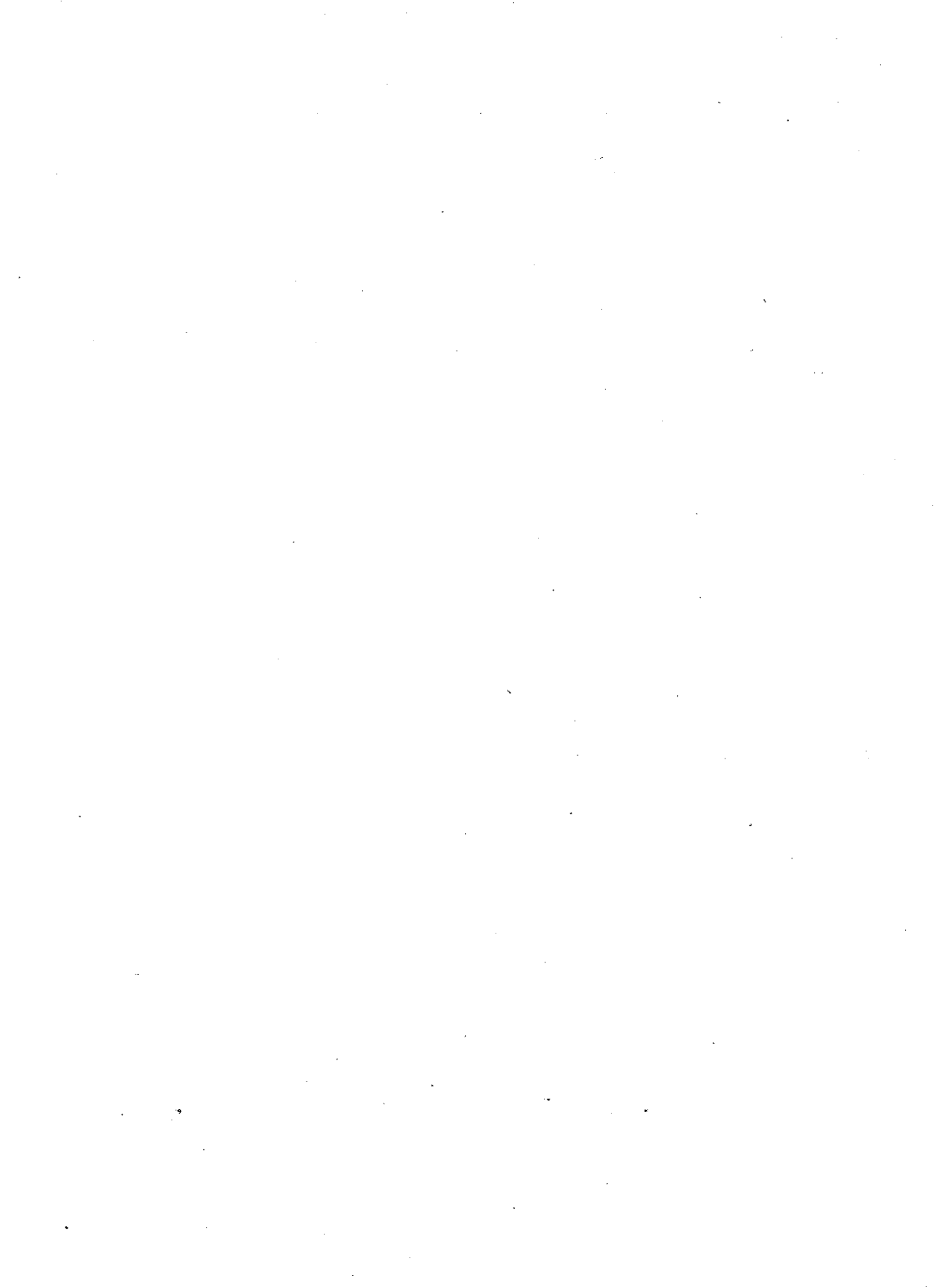
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AN INVENTORY OF  
MAINE'S TELECOMMUNICATIONS SYSTEM

Prepared for the Maine State Planning Office by Joseph M.  
Chaisson and Valarie Lamont of the Telecommunications  
Research Program at Westbrook College in Portland, Maine

July, 1985



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- A. Glossary
- B. Local Exchange Characteristics
- C. Cable Television System Characteristics

## I. INTRODUCTION

This report presents an inventory of telecommunications services and facilities readily available to Maine business and private users. Certain facilities and services were not included in this report. These include:

- Dept. of Defense facilities,
- Private networks that utilize common carrier facilities,
- Broadcast services, and
- Internal systems of users (for example large private branch exchanges).

The primary purpose of this report is to provide information for Governor Brennan's Task Force on Telecommunications. The inventory also can be widely used as a reference by persons and organizations concerned with providing telecommunications services in Maine.

As this report is expected to be the beginning of an on-going inventory process that will be regularly updated, corrections, comments, and suggestions for additions or format improvements are welcome. Please forward such comments to:

Telecommunications Research Program  
Westbrook College  
Stevens Avenue  
Portland, ME 04103

## II. LOCAL TELEPHONE SERVICE

### A. Summary:

This section describes conventional local telephone service which is currently provided by linking subscriber equipment (generally a telephone) to a "central office" switch by means of "local loop" subscriber lines. Central office switches are linked by "trunk" lines to nearby central offices to provide non-toll local area calling and are connected to toll switches to provide long distance toll calling

### B. Summary statistics:

Number of central offices	269
Number of access lines	519,062
Number of companies providing service	19
Estimated total capital investment	\$730 Million
Estimated number of employees	2,400
% Electronic switching	32%
% Digital switching	6%
Market structure - monopoly, regulated by the Maine Public Utilities Commission	

### C. Service providers:

Bryant Pond Telephone Co.  
Box 128  
Buckfield, ME 04220  
336-3605

China Telephone Co.  
South China, ME 04358  
445-9911

Cobbosseecontee Tel. & Tel. Co.,  
RFD #2 Box 900  
Litchfield, ME 04350  
724-9911

Community Service Telephone Co.,  
Winthrop, ME 04364  
377-9911

Continental Telephone Co. of Maine  
PO Box 880  
Damariscotta, ME 04543  
563-9911



Hampden Telephone Co.  
35 Western Ave.  
Hampden, ME 04444  
862-9911 or 862-3000

Hartland & St. Albans Tel. Co.  
Hartland, ME  
938-9911

The Island Telephone Co.  
Frenchboro, ME 04635  
334-9911

New England Telephone  
1 Davis Farm Rd.  
Portland, ME 04103  
797-1247

Oxford County Tel. & Tel. Co.  
Box 128  
Buckfield, ME 04220  
336-9911

Pine Tree Tel. & Tel. Co.  
Box 300  
Gray, ME  
657-9911

Saco River Tel. & Tel. Co.  
PO Box 48  
Bar Mills, ME 04004  
929-9911

Somerset Telephone Co.  
North Anson, ME 04958  
635-9911

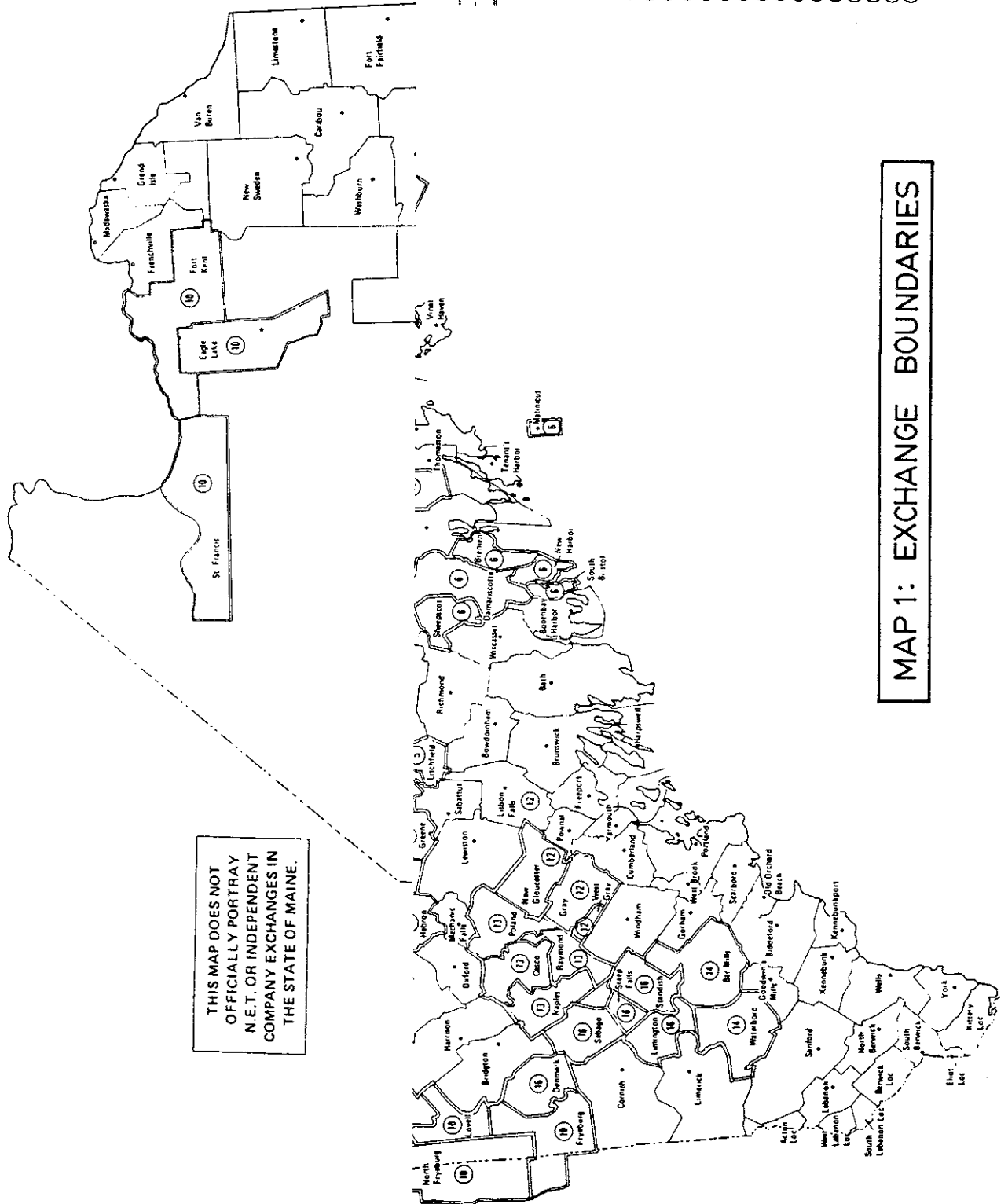
Standish Telephone Co.  
Standish, ME 04084  
642-9911

Union River Tel. Co.  
Aurora, ME 04408  
584-9911

Unity Tel. Co.  
Unity, ME 04988  
948-9911

Warren Tel. Co.  
Warren, ME 04864  
273-9911



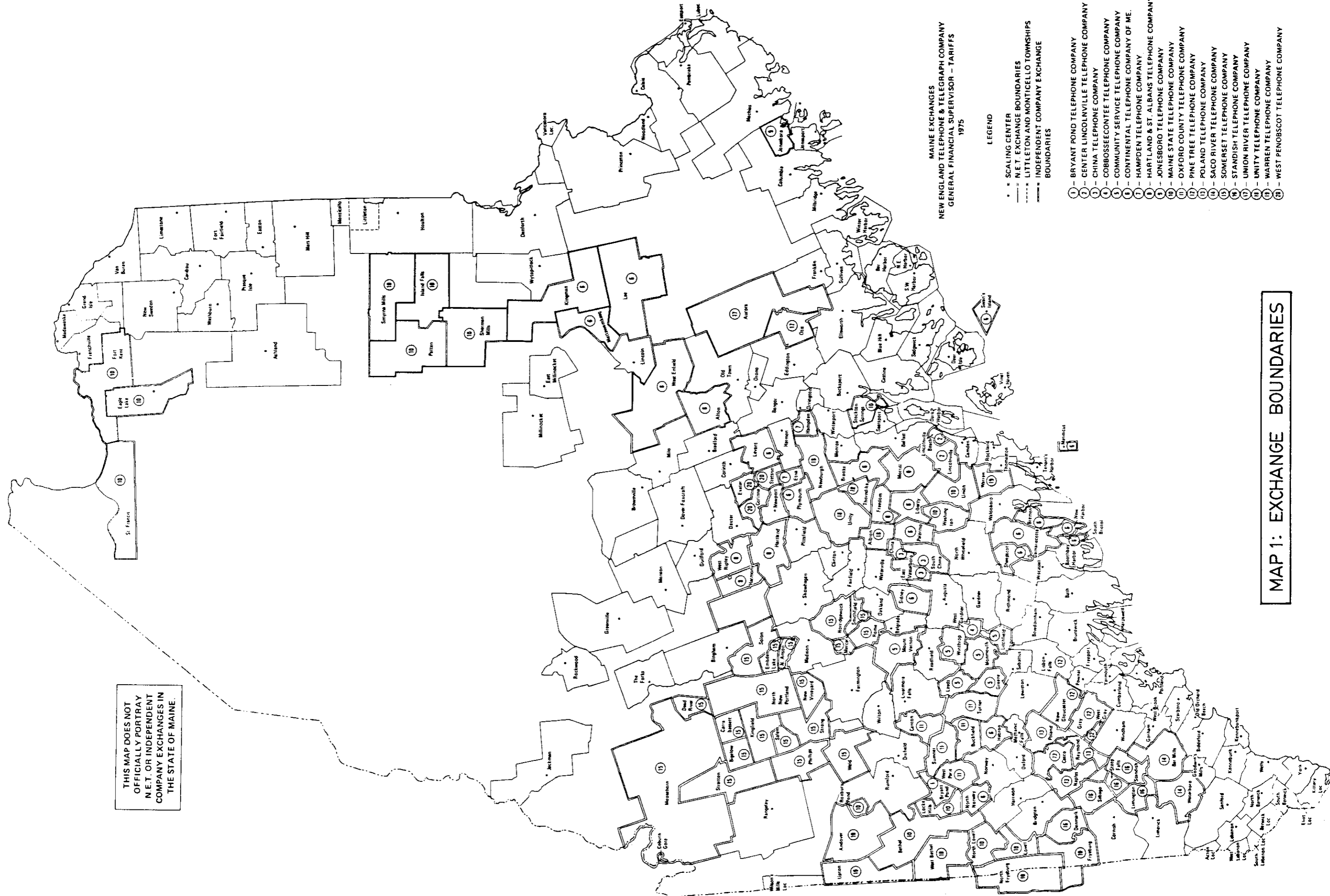


THIS MAP DOES NOT OFFICIALLY PORTRAY N.E.T. OR INDEPENDENT COMPANY EXCHANGES IN THE STATE OF MAINE.

# MAP 1: EXCHANGE BOUNDARIES

- \* SCALING CENTER
- - - N.E.T. EXCHANGE BOUNDARIES
- - - LITTLETON AND MONTICELLO TOWNSHIPS
- - - INDEPENDENT COMPANY EXCHANGE BOUNDARIES

- 1 - BRYANT POND TELEPHONE COMPANY
- 2 - CENTER LINCOLNVILLE TELEPHONE COMPANY
- 3 - CHINA TELEPHONE COMPANY
- 4 - COBOSSECONTEE TELEPHONE COMPANY
- 5 - COMMUNITY SERVICE TELEPHONE COMPANY
- 6 - CONTINENTAL TELEPHONE COMPANY OF ME.
- 7 - HAMPDEN TELEPHONE COMPANY
- 8 - HARTLAND & ST. ALBANS TELEPHONE COMPANY
- 9 - JONESBORO TELEPHONE COMPANY
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MAP 1: EXCHANGE BOUNDARIES



Table A

## Selected Telephone Company Characteristics

	# Central Offices	# Subscriber lines	% Lines served by electronic switching	
			analog	digital
Bryant Pond	1	436	0	0
China	3	1626	0	100
Cobbosseecontee	1	572	0	0
Community	7	5912	0	20
Continental	47	32,425	0	25
Hampden	2	1733	0	83
Hartland	3	1395	0	0
Island	1	24	0	0
Lincolntonville	2	660	0	100
New England	172	450,801	25	3
Oxford	6	2290	0	0
Pine Tree	3	2952	0	0
Saco River	4	3491	0	57
Somerset	19	6716	0	0
Standish	5	3201	0	56
Union River	3	541	0	0
Unity	4	2334	0	100
Warren	1	820	0	0
W. Penobscot	4	1133	0	0
TOTALS	269	519,062	22%	6%

West Penobscot Tel. Co.  
PO Box 0  
Corryna, ME 04928  
278-9911

D. Exchange boundaries- see Map # 1

E. Company characteristics - see Table A

F. Exchange characteristics:

Selected characteristics of each exchange providing local telephone service in Maine are presented in Appendix B. This information includes the name of the exchange, a numerical code which lists the first three digits of telephone numbers within that exchange, the company that provides service, the number of subscriber lines in use at the beginning of 1984, the type of switch used, and whether or not digital subscriber line carrier (slc) is present within the exchange. The presence of digital subscriber line carrier provides the technical possibility of providing wideband services in those portions of the exchange that are served by such carrier. A sample entry is listed below:

Name	Code	Co.	# lines	switch type	slc	notes
Andover	392	Con	328	EM	N	

Abbreviations for switch types used in Appendix B are:

E/D - Electronic/digital  
E/A - Electronic/analog  
EM/D - Electro-mechanical/direct control  
EM/C - Electro-mechanical/common control  
EM - Electro-mechanical, unspecified

Switch types greatly influence the type and quality of service that can be provided within an exchange. Electro-mechanical switches can limit data transmission at data rates above (>3600 bps) due to electrical noise generated within the switch. Electronic switches can provide a full range of such advanced services as:

touch tone dialing,  
call waiting,  
call forwarding, and  
private branch exchange (PBX) like features.

Electro-mechanical switches with common control can provide a limited range of enhanced services including touch tone dialing. Where subscriber line carrier is present within an exchange, potential exists to provide wideband subscriber lines.

Abbreviations for companies used in Appendix B are:

Con	-	Continental
Som	-	Somerset
Unty	-	Unity
Chna	-	China
Pntr	-	Pine Tree
Lncv	-	Lincolnvillie
Oxfd	-	Oxford County
Brpd	-	Bryant Pond
Hart	-	Hartland & St. Albans
Wpen	-	West Penobscot
Unrv	-	Union River
Cmsv	-	Community Service
Hmpd	-	Hampden
Warn	-	Warren
Saco	-	Saco River
Stan	-	Standish
Isld	-	Island
NET	-	New England



### III. MOBILE TELEPHONE SERVICE

#### A. Summary:

Limited mobile telephone service is publically available in Maine. Service is provided through conventional voice radio systems that can communicate with mobile stations within essentially line-of-sight coverage areas from base station antenna locations. Only one subscriber at a time can use a system, and all communications are heard by any other subscribers who may be listening.

#### B. Service Coverage:

Map 2 shows base station locations. Current mobile telephone service is retracted to areas with direct "line-of-sight" to base station antennas. Detailed coverage maps for each base station are available from service vendors.

#### C. Service Providers:

1. New England Telephone Company;

Base stations:

Bangor	Portland
Houlton	Fresque Isle
Lewiston	Rockland
Dover, N.H.	

2. Summitt Mobile Radio Company

32 Cook St.  
Auburn, ME 04210  
784-3566

Base stations:

Auburn	Augusta
Portland	Waterville

3. Somerset Telephone Company;

Base station locations:

Strong	Stratton
Norridgewock	North Anson

4. Radio Telephone of Maine

(COM-NAV)  
12 Acme Road  
Brewer, ME 04412  
989-5526

Base station: Brewer

5. Unity Telephone Company;

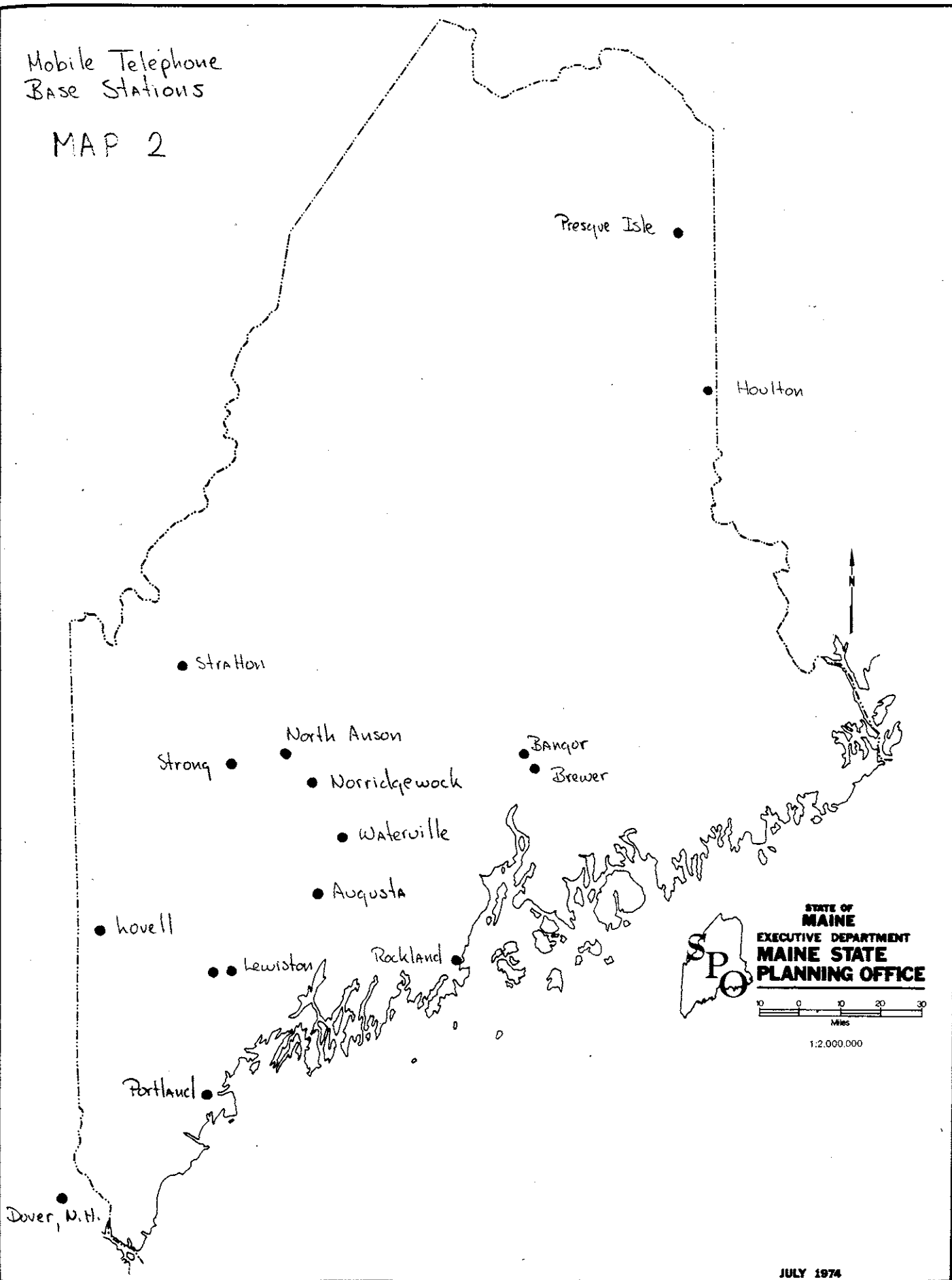
Base station: Unity

6. Aroostook Paging Inc.

P.O. Box 1086

Mobile Telephone  
Base Stations

MAP 2



JULY 1974

Presque Isle, ME 04769  
764-5491

Base station: Presque Isle

7. Continental Telephone;

Base station: Lovell

Note: service from the Lovell base station is restricted  
to existing subscribers.

#### IV. DIGITAL TERMINATION SERVICE

##### A. Service description:

Digital termination service (DTS) is a new digital communication service being licensed by the Federal Communications Commission (FCC) that uses microwave radio technology to replace wire "local loops" to communicate between a central transmitter site and customers in the local metropolitan area. Companies providing DTS will be establishing networks between their central transmitters in different areas and they will also interconnect with some or all interlata common carriers. Digital data communications at rates from 2400 bits/sec to 1.54M bits/sec (T-1) will be provided in the following forms:

1. Dedicated, full-time, private line (leased) services;
2. Local voice trunk lines in blocks of 24 channels;
3. Measured service (customer is charged only for time used).

DTS is not yet provided in Maine. Applications to provide service in Augusta and Portland have been filed with the FCC.

## V. CABLE TELEVISION

### A. Service description:

Cable television connects a central transmission (head-end) facility with individual subscribers using coaxial cable (with amplifiers) as the transmission channel. In Maine, cable television is used for delivery of such entertainment services as remote & local broadcast television channels, and special cable networks. Some existing cable systems are technically capable of providing reverse communication (from subscriber to head-end) if existing one-way amplifiers are replaced with two-way amplifiers. Cable systems have extremely large bandwidths and where they have potential for two-way communication, they could provide much larger bandwidth services (T-1 carrier or video signals, for example) than can typical telephone subscriber lines. Two way potential is generally feasible if the system was engineered to allow for such service prior to system installation.

### B. Summary statistics:

Number of systems	41
Number of communities served	144
Franchises granted, but not operating	10
Number of subscribers	154,371
Number of pay service subscribers	69,736
Estimated number of employees	1,000
Estimated capital investment	\$130 Million
Market: local monopoly for franchise period regulated by municipal governments	

### C. System Descriptions:

Appendix C describes selected characteristics of all Maine cable systems. A sample description is presented below-

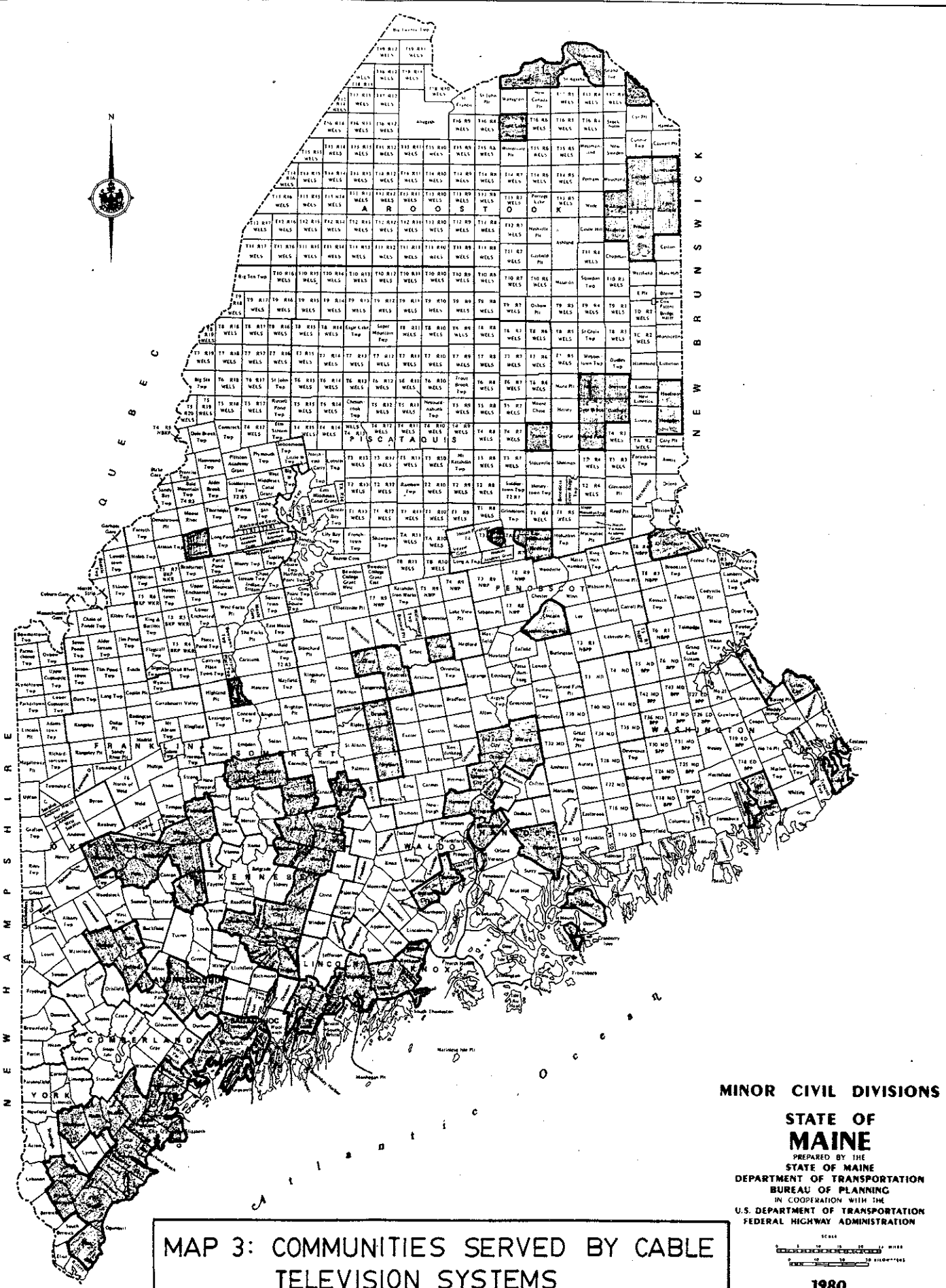
COMPANY: State Cable TV Corp.  
187 Water Street  
Augusta, ME 04330  
(207) 623-5145

Communities Served: Augusta, Chelsea, Farmingdale, Gardiner,  
Hallowell, Manchester, Pittston,  
Randolph, West Gardiner, Winthrop

Subsidiary of: Cable Group Ownership

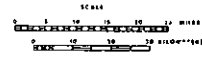
Channel Capacity: 21

Unused Channels: 3



**MAP 3: COMMUNITIES SERVED BY CABLE TELEVISION SYSTEMS**

**MINOR CIVIL DIVISIONS**  
**STATE OF MAINE**  
 PREPARED BY THE  
**STATE OF MAINE**  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF PLANNING  
 IN COOPERATION WITH THE  
 U.S. DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION



**1980**

Cable miles: 202

# of Subscribers: 11,109

Two-way potential: no

## VI. PAGING SYSTEMS

### A. Service Description-

Paging systems provide one-way channels to subscribers within coverage area of a paging system transmitter. The subscriber carries a small receiving unit that can be clipped to a belt or placed in a pocket. If a message is called into the subscriber's number at the paging system, a message is sent to the receiving unit. Some units simply beep to notify the wearer that a message is waiting, while others transmit a short voice or text message to the wearer. Transmission of messages is by radio with many receivers sharing the same channel, however only messages for a subscriber will be received by his or her pager.

### B. Service providers:

1. Arcostock Paging Inc.,  
P.O. Box 1086,  
Presque Isle, ME 04769

764-5491

2. Coastal Communications, Inc.,  
P.O. Box 97,  
Belfast, ME 04915

236-3605

3. Comex, Inc.,  
720 Union St.,  
Manchester, N.H.,

(603) 668-3000

4. COM-NAV Inc.,  
12 Acme Road,  
Brewer, ME 04412

989-5526

5. Portland Marine Radio  
Box 43, Rte. 2  
Portland, ME. 04107

799-6426



6. Summitt Mobile Radio  
P.O. Box 55,  
32 Cook St.  
Auburn, ME 04210

784-9163

7. Pine Tree Tel. & Tel. Co.  
Box 300  
Gray, ME

657-9911

## VII. INTRA-STATE (INTRA-LATA) PUBLIC SERVICES

### A Summary:

Maine constitutes a single Local Access and Transport Area or LATA (a term set forth in the AT&T consent decree) which is a geographic area within which a local operating company may provide telephone service. Therefore intra-state service in Maine is also intra-LATA service. Intra-state telephone service in Maine is provided primarily by New England Telephone, although Somerset Telephone provides toll switching for its own service area and some nearby independents (see toll switch/service area descriptions).

The following switched services are provided:

- a. Standard long distance;
- b. Wide area toll service (WATS);
- c. Call-in toll service (800); and
- d. Special residential toll services.

Private line (leased) intra-state services are discussed in Section VIII).

### B. Toll Switches/Service Areas:

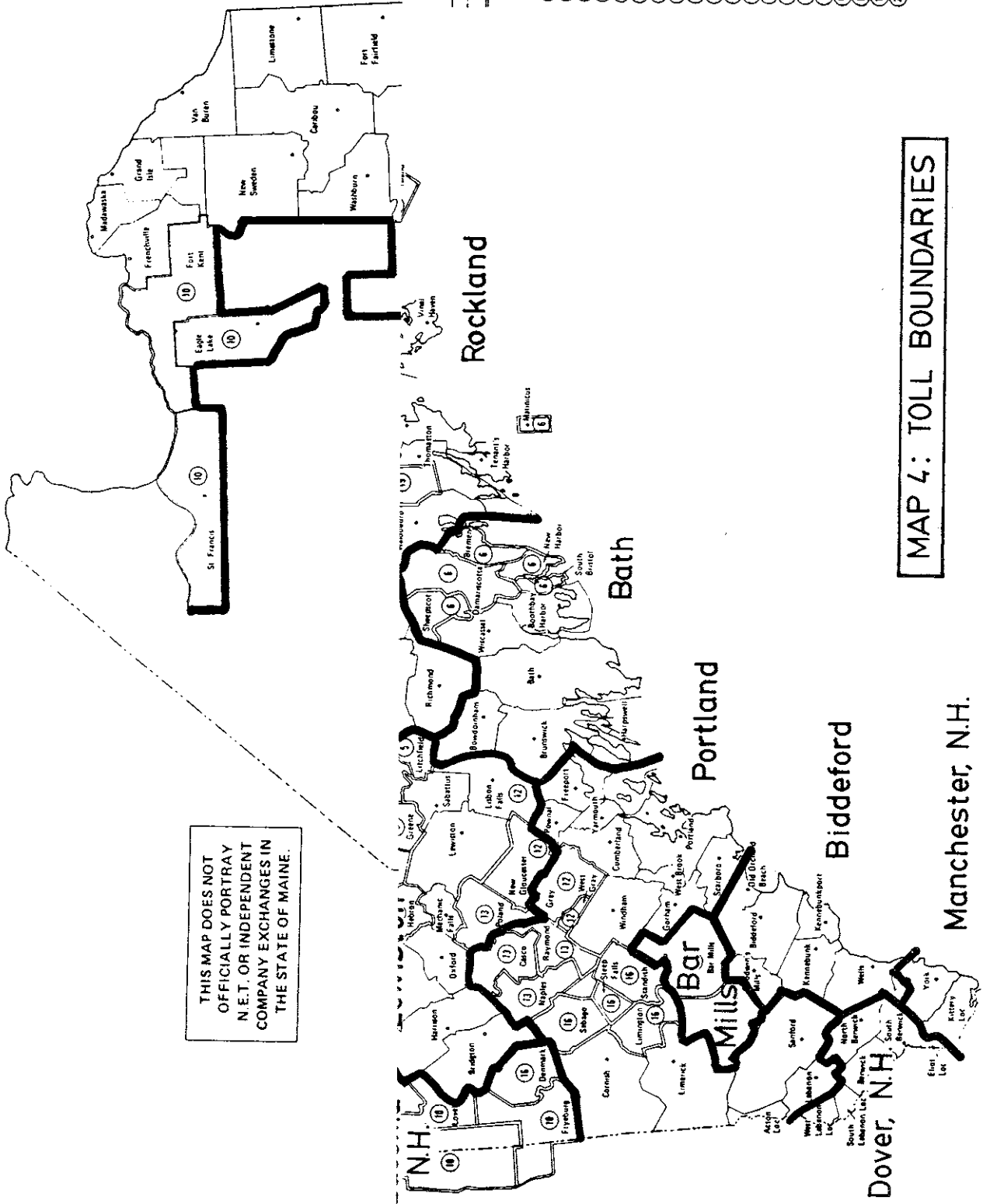
Map 4 shows the location of Maine toll switches and the exchanges they serve. Table B, below, presents selected characteristics of these toll switches.

TABLE B  
Toll Switch Characteristics

Location	Owner	Model	Type	Notes
Augusta	NET	1AESS	E/A	
Bangor	NET	1AESS	E/A	
Bath	NET	SXS	EM/D	Incoming calls only to be detolled in 1986
Biddeford	NET	SXS	EM/D	Change to E/D 1986
Lewiston	NET	1AESS	E/A	
Portland	NET	DMS 200	E/D	
Presque Isle	NET	1AESS	E/A	
Rockland	NET	SXS	EM/D	
Waterville	NET	5ESS	E/D	
Littleton, NH	NET	5ESS	E/D	
Laconia, NH	NET	5XB	EM/C	
North Anson	Somerset		E/D	
China	China		E/D	
Bar Mills	Saco		E/D	

Notes: 1. Exchanges served for incoming calls by the Bath switch are served by Lewiston for outgoing calls.





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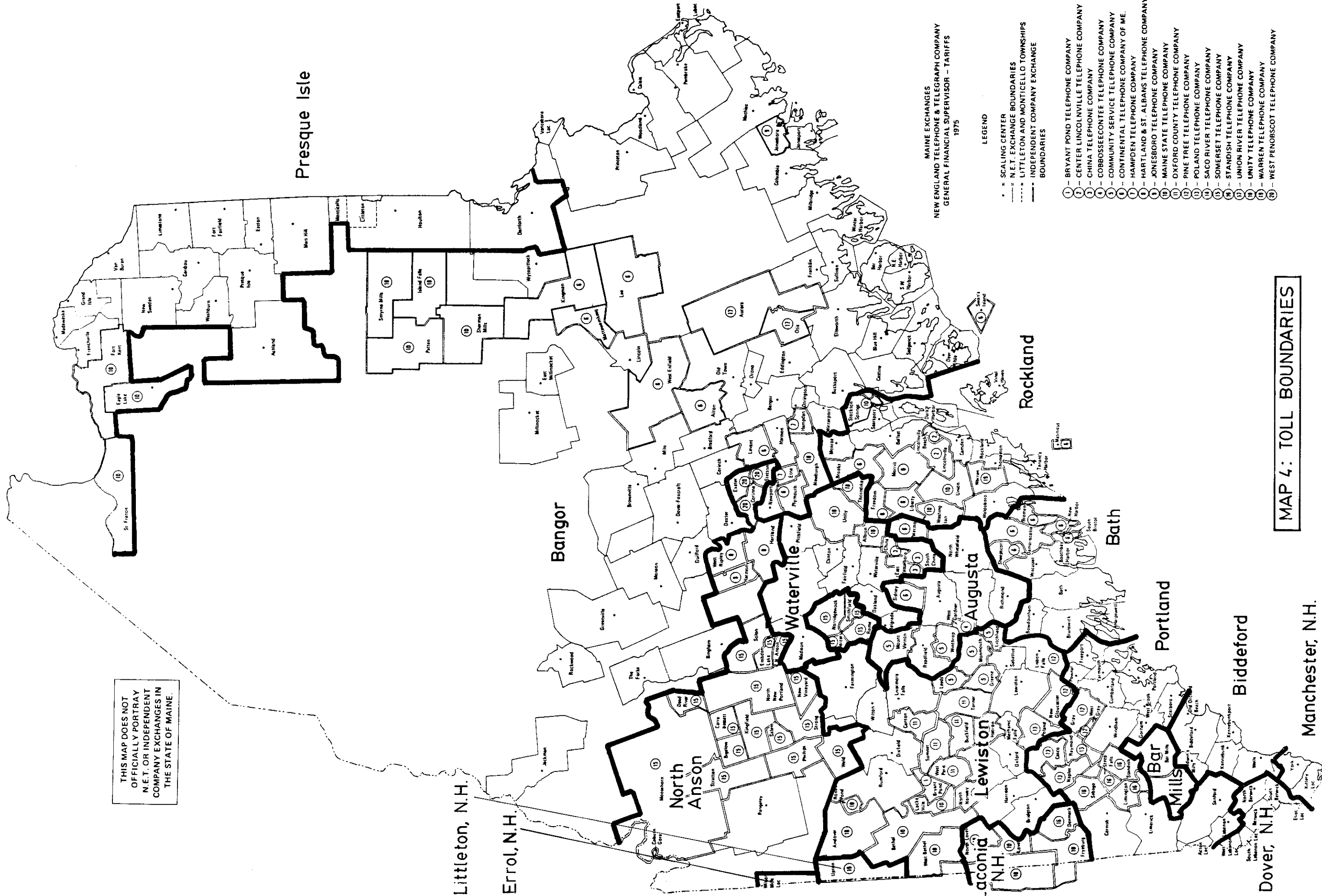
MAP 4: TOLL BOUNDARIES

LEGEND

- = SCALING CENTER
- = N.E.T. EXCHANGE BOUNDARIES
- - - = LITTLETON AND MONTICELLO TOWNSHIPS
- = INDEPENDENT COMPANY EXCHANGE BOUNDARIES

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MAINE EXCHANGES  
NEW ENGLAND TELEPHONE & TELEGRAPH COMPANY  
GENERAL FINANCIAL SUPERVISOR - TARIFFS  
1975

LEGEND  
 \* = SCALING CENTER  
 - - - - - N.E.T. EXCHANGE BOUNDARIES  
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MAP 4: TOLL BOUNDARIES

Littleton, N.H.  
Errol, N.H.

Dover, N.H.

Manchester, N.H.



2. "Type" abbreviations-

E/D - Electronic/digital  
E/A - Electronic/analog  
EM/D - Electro-mechanical/direct control  
EM/C - Electro-mechanical/common control

C. Digital Interconnectivity:

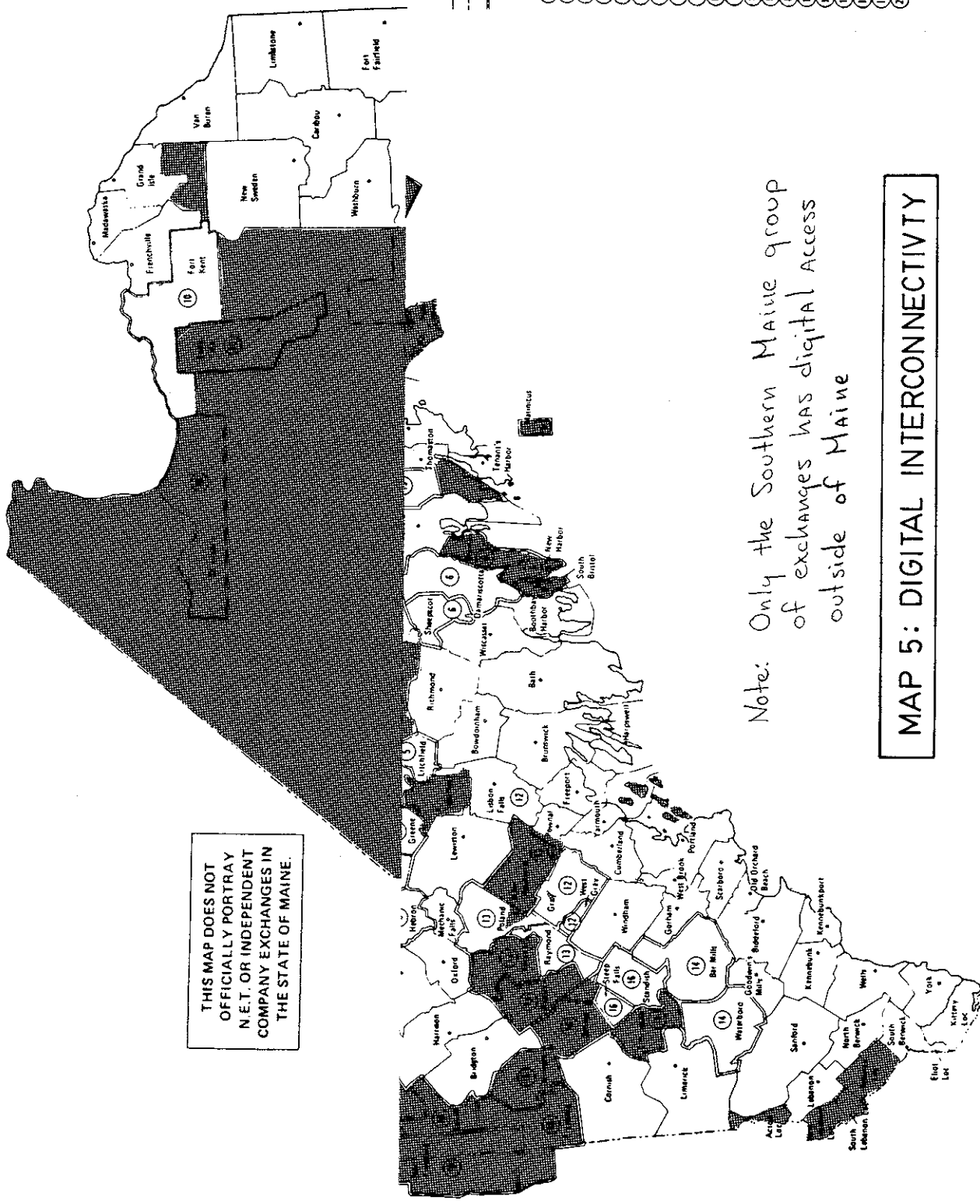
Map 5 shows exchanges linked by digital trunk facilities. This information indicates where potential exists for digital communication paths.

D. Intra-LATA/Inter-LATA Interfaces:

AT&T is the primary provider of inter-LATA telephone services for Maine. Interconnection between AT&T and the intra-lata network is provided at two major points of interconnection called "Points of Presence" in Portland and Bangor.







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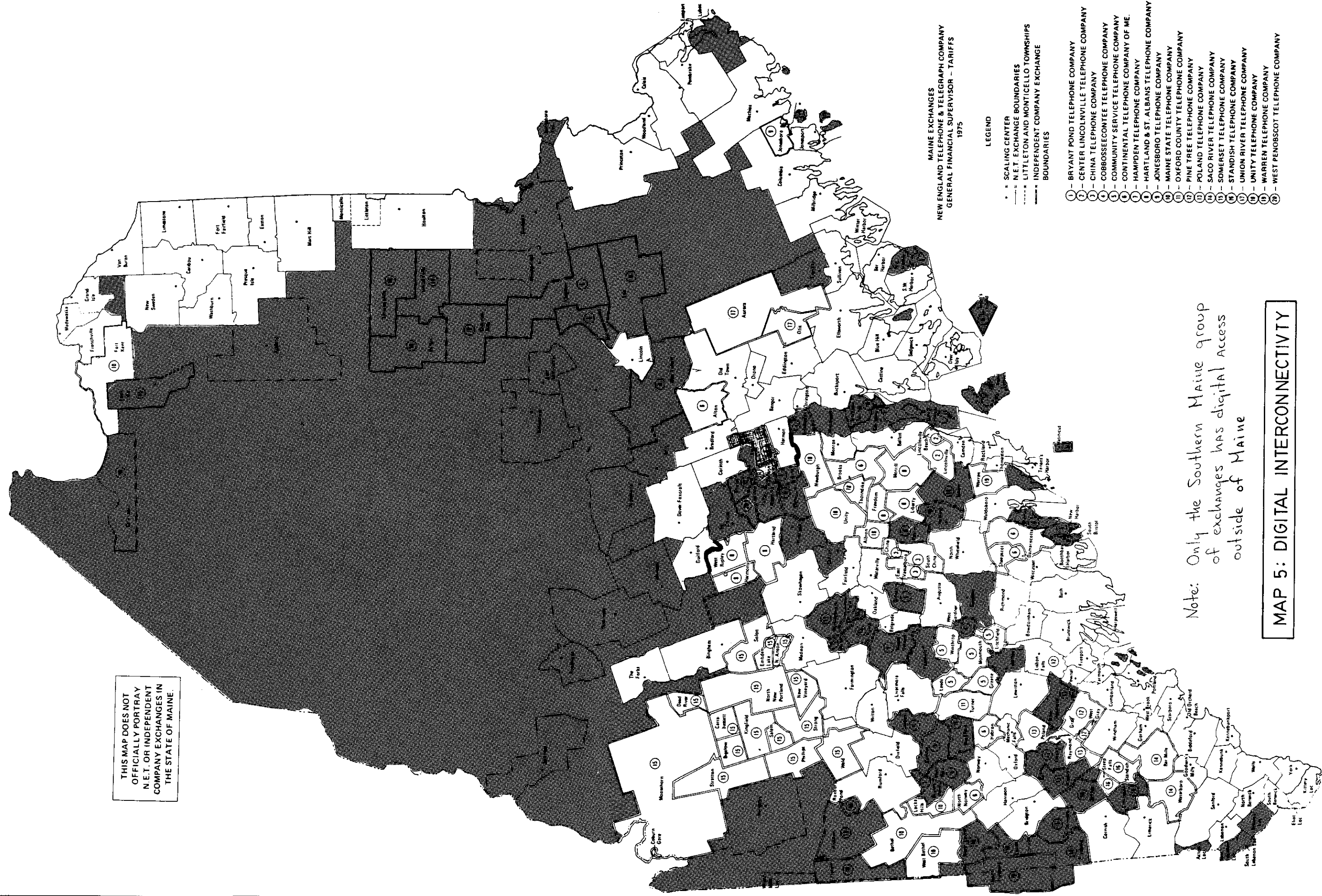
Note: Only the Southern Maine group of exchanges has digital access outside of Maine

MAP 5: DIGITAL INTERCONNECTIVITY

- SCALING CENTER
- N.E.T. EXCHANGE BOUNDARIES
- - - LITTLETON AND MONTICELLO TOWNSHIPS
- INDEPENDENT COMPANY EXCHANGE BOUNDARIES

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MAINE EXCHANGES  
NEW ENGLAND TELEPHONE & TELEGRAPH COMPANY  
GENERAL FINANCIAL SUPERVISOR - TARIFFS  
1975

- LEGEND
- SCALING CENTER
  - N.E.T. EXCHANGE BOUNDARIES
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Note: Only the Southern Maine group of exchanges has digital access outside of Maine

MAP 5: DIGITAL INTERCONNECTIVITY



## VIII. INTRA-STATE (INTRA-LATA) PRIVATE LINE SERVICES

### A. Service description:

Private lines are unswitched lines that are leased to provide direct connections between one or more customer locations.

### B. Services available:

NET can provide numerous types of private line services within Maine. The most significant of these services are the following-

1. "1000" Series Lines  
Low grade lines that can be used to provide up to 150 Baud data communications
2. "2000" Series Lines  
Voice grade lines for a variety of voice services.
3. "3000" Series Lines  
Specially conditioned lines, used primarily for moderate speed (1200-14,222 bps) data communications. Aproximate bandwidth of these lines is 300-3000 Hertz. Various types of "conditioning" for data transmission are available at tarrified rates for these lines.
4. Quick-way (Diginet) Service  
Digital lines providing data rates from 2400bps to 56kbs. This service is limited to exchanges that are currently digitally interconnected (see Map 5).
5. T-1 Digital Lines  
Digital lines providing standard T-1, 1.544 Mbps digital data communication. These line can be used exclusively for data communications at this rate or carry 24 digitized voice channels or a mixture of digitized voice and data channels. This service is limited to exchanges that are currently digitally interconnected (see Map 5).

## IX. NON-COMMON CARRIER MICROWAVE SYSTEMS

### A. Service Description:

Non-common carrier microwave systems are microwave radio systems licensed by the Federal Communications Commission (FCC) to public or private organizations other than common carriers. New FCC rules allow for-profit sale of excess system capacity, and the FCC is considering allowing sale of excess system capacity to common carriers.

### B. Summary statistics:

Number of systems	15
Applications pending for new systems	2
Estimated capital investment	\$2.5 Million

### C. System Descriptions:

The "channel capacity" information for each system gives the number of voice channels expected to be used in initial system operation and the total number of voice channels that could be used in the bandwidth allocated in the system license.

The location of existing systems is shown on Maps 6-9.

#### 1. Central Maine Power Co.

Edison Drive  
Augusta, ME 04330  
(207) 623-3521

# of paths: 21

Frequency band: 1 & 6 Ghz

Type: Voice message

Channel capacity: 300/480

Notes: Interconnects with Maine Electric Power, Maine Yankee Atomic Power, and Bangor Hydroelectric systems.

#### 2. Maine Electric Power Co.

(contact CMP for information)

# of paths: 4

Frequency bands: .9 & 6 Ghz

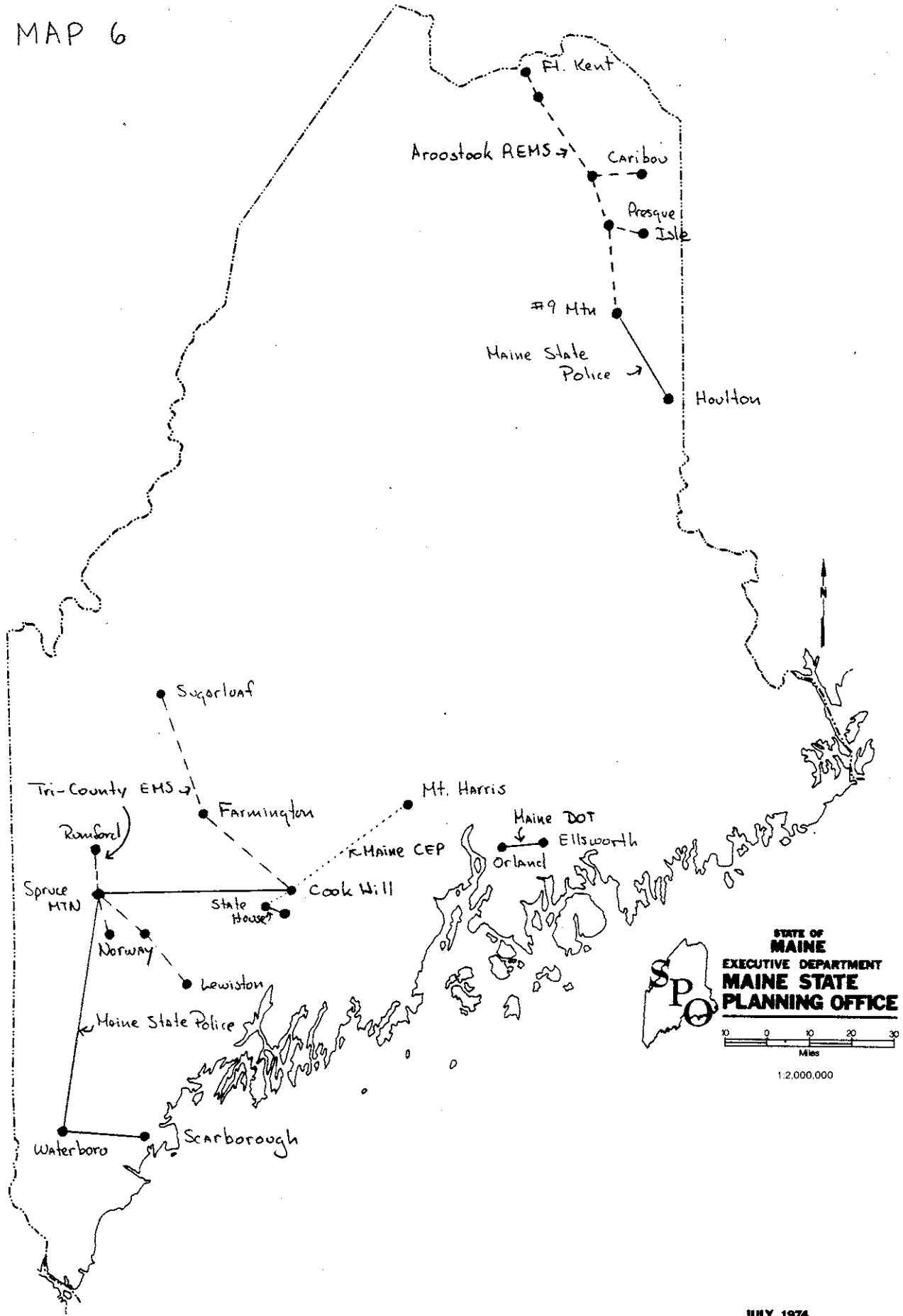
Type: Voice message

Channel capacity: 300/480

Notes: Interconnects with Central Maine Power, Maine Yankee Atomic Power, and Bangor Hydroelectric Power

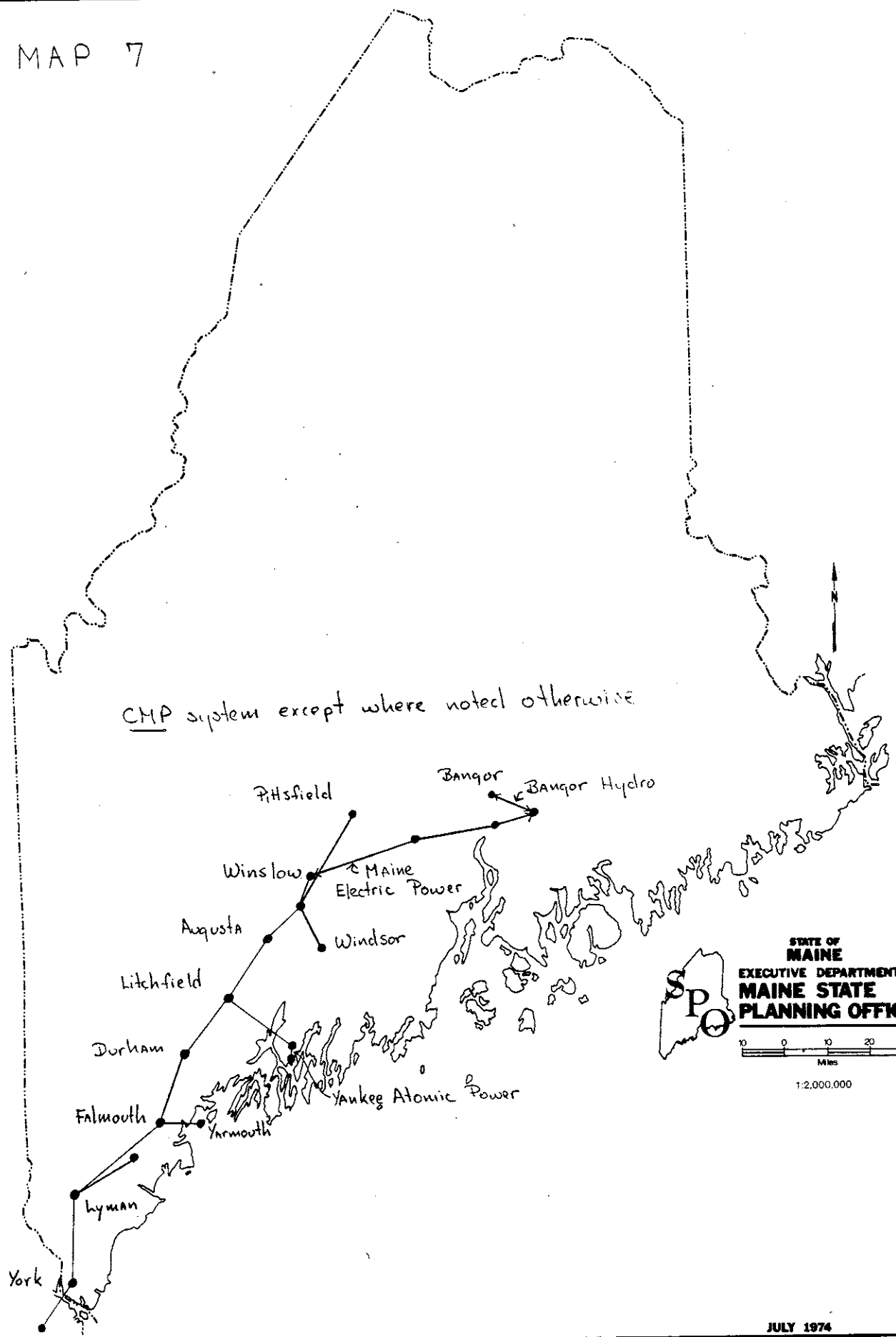
#### 3. Maine Yankee Atomic Power

MAP 6



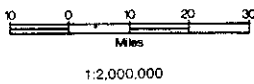
JULY 1974

MAP 7



CMP system except where noted otherwise

STATE OF MAINE  
EXECUTIVE DEPARTMENT  
**MAINE STATE  
PLANNING OFFICE**

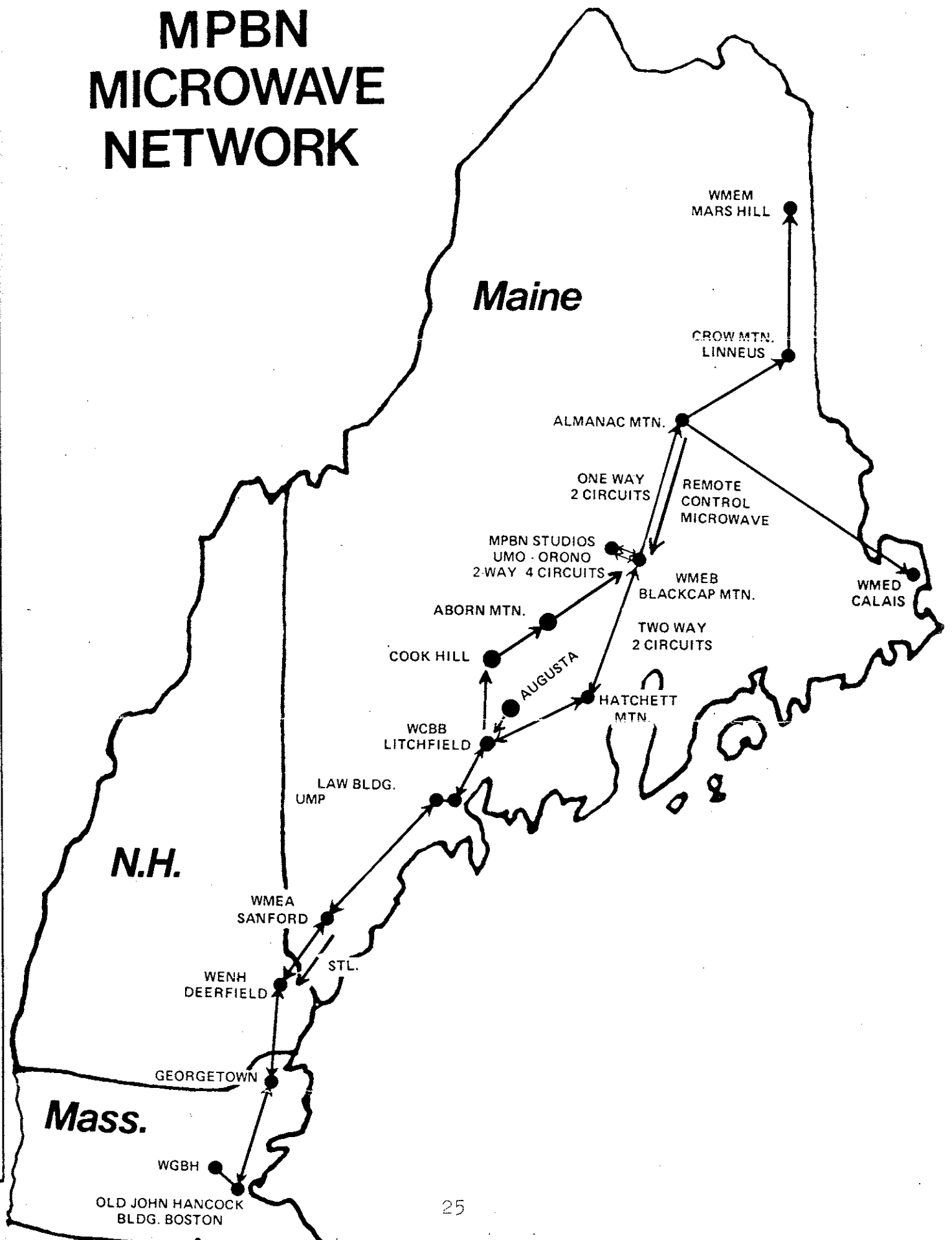


1:2,000,000

JULY 1974

MAP 8

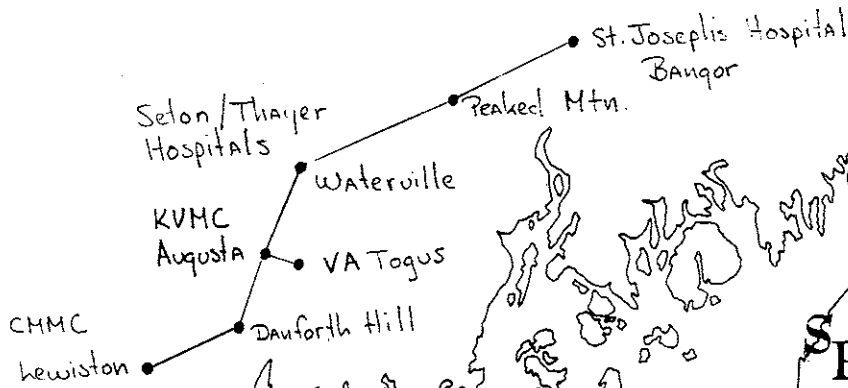
# MPBN MICROWAVE NETWORK





MAP 9

Central Maine Interactive Telecommunications System



STATE OF MAINE  
EXECUTIVE DEPARTMENT  
**MAINE STATE PLANNING OFFICE**

0 10 20 30  
Miles

1:2,000,000

JULY 1974

Ferry Road  
Wiscasset, ME 04578  
(207) 623-3521

# of paths: 3  
Frequency bands: 6 Ghz  
Type: Voice message  
Channel capacity: 480  
Notes: Interconnects with Central Maine Power, Maine  
Electric Power, and Bangor Hydroelectric Power

4. Bangor Hydroelectric Power Co.  
33 State St.  
Bangor, ME 04401  
(207) 945-5621

# of paths: 1  
Frequency bands: 1 & 6 Ghz  
Type: Voice message  
Channel capacity: 300  
Notes: Interconnects with Central Maine Power, Maine  
Electric Power, and Maine Yankee Atomic Power

5. Seaward Construction  
South Berwick Highway  
Kittery, ME 03904  
(207) 439-5900

# of paths: 1  
Frequency bands: .9 Ghz  
Type: Voice message  
Channel capacity: 2  
Notes:

6. State Of Maine  
Dept. of Transportation  
State House Station #16  
Augusta, ME 04333  
(207) 289-3426

# of paths: 1  
Frequency bands: .9 Ghz  
Type: Voice message  
Channel capacity: 2  
Notes:

7. State of Maine  
Dept. of Public Safety  
State House Station #42  
Augusta, ME 04333  
(207) 289-2155

# of paths: 7  
Frequency bands: 6 Ghz

Type: Voice message  
Channel capacity: 480  
Notes:

8. State of Maine  
Bureau of Civil Emergency Preparedness  
State House Station #72  
Augusta, ME 04333  
(207) 289-3211

# of paths: 2  
Frequency bands: 6 Ghz  
Type: Voice message  
Channel capacity: 120  
Notes:

9. University of Maine  
University of Southern Maine  
96 Falmouth St.  
Portland, ME 04103  
(207) 780-4470

# of paths: 2  
Frequency band: 12 Ghz  
Type: Video  
Channel capacity: 1  
Notes: Instructional Technology System to demonstrate use  
of television for remote instruction delivery  
within the USM system.

10. University of Maine  
Maine Public Broadcasting Network  
Box 86  
Orono, ME 04473  
(207) 866-4493

# of paths: 15  
Frequency bands: 2, 7, & 13 Ghz  
Type: Video and wideband audio  
Channel capacity: varies by path; up to 1 video and 3  
wideband audio channels per system and  
up to two systems per path.  
Notes: Potential exists for converting some wideband audio  
channels to 24 voice-grade channels; substantial  
changes to system will occur by 1/1/86.

11. Tri-County Emergency Medical Services  
300 Main St.  
Lewiston, ME 04240  
795-2880

# of paths: 5  
Frequency bands: 2 Ghz  
Type: Voice message

Channel capacity: 96

Notes:

12. Arcoostook Regional Emergency Medical Services Council  
Presque Isle, ME 04769  
(207) 769-7561

# of paths: 6

Frequency bands: 2 Ghz

Type: Voice message

Channel capacity: 96

Notes:

13. Medical Care Development  
11 Parkwood Drive  
Augusta, ME 04330  
(207) 622-7566

# of paths: 12

Frequency bands: 12 Ghz

Type: Video

Channel capacity: 1

Notes: Central Maine Interactive Television System

This system provides two-way video conferencing to meet a number of medical education and patient needs for the medical facilities it interconnects. Non-member organizations can rent time on the system, as unscheduled time may be available.

14. Scott Paper Co.  
Mountain Ave.  
Fairfield, ME 04937  
(207) 453-2527

# of paths: 1

Frequency bands: 12 Ghz

Type: Voice message

Channel capacity: 300

Notes:

15. Hannaford Brothers  
145 Pleasant Hill Rd.  
Scarborough, ME 04074  
(207) 775-0639

# of paths: 1

Frequency bands: 12 Ghz

Type: Voice message

Channel capacity: 300

Notes:

X. INTER-STATE (INTER-LATA) SERVICES

A. Summary characteristics:

Market structure- competitive (AT&T currently dominates the Maine market).  
Capital investment- > \$81 million (AT&T only)  
In-state employment- >270 (AT&T only)

B. Line-switched services:

1. AT&T Communications  
Business Office, Fourth Floor  
Two Devonshire Place  
Boston, MA 02109

(800) 222-0400

AT&T is the major provider of inter-LATA switched services in Maine. All Maine local exchanges are connected to AT&T through points-of-presence in Bangor and Portland.

The following services are available:

- a. Direct Distance Dialing (DDD)- standard dialed long distance telephone service;
- b. WATS- Outward calling bulk long distance service;
- c. 800- Inward calling WATS service.

2. GTE SPRINT Communications Corp.  
1 Adrian Court  
Burlingame, CA 94010  
(415) 692-5600

Business SPRINT service is offered on a dial-up basis in the Portland exchange. To use this service a local number is dialed to access the network; once connected an authorized access code must be dialed, followed by a standard long-distance telephone number.

C. Non-switched, private line services:

Private line services are provided by direct line connections to subscribers or by establishing dedicated satellite terminals at the subscriber's premises.

1. Direct terrestrial line services-

a. AT&T services

(1) Series 1000 Lines-

Low speed lines (30 to 150 bps) supporting various signaling, metering, teletypewriter,

teletypesetter, and data communications applications.

- (2) Series 2000 & 3000 (MPL) Lines-  
Voice grade line service with an approximate bandwidth of 300-3000 Hertz. Types C1 through C5 and D1 through D5 conditioning are available.
- (3) Accunet T1.5 Service-  
High-speed (1.544M bps) digital line service.

b. Western Union services

Western Union Telegraph Co.,  
1 Lake St.  
Upper Saddle River, NJ 07548  
(201) 825-5000

- (1) Low Speed Channel Service-  
Low speed lines (up to 300 baud) supporting various signaling, metering, teletypewriter, and data communications applications. This service is publically available in Portland, Bangor, and Calais; and is available to U.S. Government users in Brunswick.
- (2) Series 8000 Wideband Service-  
Wideband (48 Khz) channels that can provide up to 50 K bps data rates or the equivalent of 12 voice channels.

2. Satellite Services-

The following network services can be accessed from any area of Maine by constructing a dedicated subscriber satellite ground station.

- a. AT&T Skynet Service-  
High-speed digital service (T-1, 1.544 M bps). Maine access requires installation of dedicated subscriber satellite terminal.
- b. Satellite Business Systems (SBS) Communications Network Service (CNS)-

Satellite Business Systems  
8283 Greensboro Dr.  
McLean, VA 22102  
(703) 442-5000

High-speed digital service (T-1, 1.544 M bps), switched or non-switched. Maine access requires installation of a dedicated subscriber satellite terminal.

D. Packet-switched services-

1. Packet-switched data services available in Maine on a public dial-up basis are summarized in Table C, below.

TABLE C

Maine Dial-Up Packet Net Access

Network	Access Exchange	Data Rates
MARK*NET	Augusta	300 bps
MARK*NET	Bangor	50-1200 bps
MARK*NET	Brunswick	300 & 1200 bps
MARK*NET	Kittery	50-1200 bps
MARK*NET	Lewiston	300 bps
MARK*NET	Portland	300 bps
MARK*NET	Rockland	300 bps
TELENET	Augusta	50-1200 bps
TELENET	Portland	50-1200 bps
UNINET	Augusta	110-1200 bps
UNINET	Bangor	110-1200 bps
TYMNET	Lewiston	110-1200 bps
TYMNET	Portland	110-1200 bps
TYMNET	Auburn	110-1200 bps
TYMNET	Bangor	110-1200 bps
TYMNET	Brewer	110-1200 bps
COMPUSERVE	Camden	110-1200 bps

Note: The above packet networks can be accessed through the public telephone system on a non-toll basis if the access exchange listed is within the local calling area of a subscriber's exchange.

2. Packet-switched network service providers-

- a. MARK\*NET

General Electric Information Services Co. (GEISCO)  
401 North Washington St.  
Rockville, MD 20850  
(301) 340-4000

- b. TELENET

GTE Telenet Communications Corp.  
8229 Boone Blvd.  
Vienna, VA 22180  
(703) 442-1000

c. UNINET

Uninet, Inc.  
10951 Lakeview Ave.  
Lenexa, KS 66219  
(913) 541-4400

d. TYMNET

Tymnet, Inc.  
2710 Orchard Parkway  
San Jose, CA 95134  
(408) 946-4900

e. COMPUSERVE

CompuServe  
5000 Arlington Centre Blvd.  
Columbus, OH 43220  
(614) 457-8600

E. Maine access to inter-LATA services:

Table D lists significant inter-LATA services currently offered in major national markets and indicates whether these services are available in Maine. The category "limited" means the service is available in some, but not all, Maine exchanges.

TABLE D

Maine Access To Inter-LATA Services

Carrier	Service Name	Type	Access
ADP Autonet	Autonet	PS	none
AT&T	Direct Distance Dialing	CS	statewide
AT&T	WATS & 800 Service	CS	statewide
AT&T	Accunet Packet Service	PS	none
AT&T	Net 1000 Service	PS	none
Geisco	MARK*NET	PS	limited
Graphnet	Facsimile/Digital Record		limited
GTE	Telenet	PS	limited
GTE	Sprint	CS	limited
MCI	Metered Use Service	CS	none
MCI	Common Control Switching	CS	none
RCA	Cyclix	PS	none
SBS	Communications Network Services	CS	statewide
Starnet	Metered Use Services	CS	none
Tymnet	Tymnet	PS	limited
Uninet	Uninet	PS	limited
ITT	Metered Use Service	CS	none



Western Union	Telex/Telex II	CS	limited
Western Union	Teletext	CS	limited
Western Union	Long Distance Services	CS	limited
American Sat.	Communications Services	NS	none
AT&T	Series 1000 Line Service	NS	statewide
AT&T	Series 2000/3000 Services	NS	statewide
AT&T	Dataphone Digital Service	NS	none
AT&T	Accunet T1.5 Service	NS	limited
AT&T	Skynet	NS	statewide
GTE	Private Line Services	NS	none
MCI	Dedicated Line Services	NS	none
RCA	American Comm. Sat. Ser.	NS	none
ITT	Private Line Services	NS	none
Western Union	Satellite Services	NS	none
Western Union	Low Speed Channel Service	NS	statewide
Western Union	One-way Broadcast	NS	none
Western Union	Data/Voice Channel Ser.	NS	none
Western Union	Series 8000 Wideband	NS	statewide
Compuserve	Compuserve Network services	PS	limited

Notes: Access to SBS Communications Network Services and AT&T Skynet require purchase of a dedicated satellite ground station.

"Limited" access means this service is not directly available in all parts of Maine.

Type Codes: PS - Packet switched network  
 CS - Circuit switched network  
 NS - Non-switched private leased lines

## XI. TELEX & "TELEX-LIKE" SERVICES & ELECTRONIC MAIL

### A. Summary:

All services covered in this section involve the transmission of messages in text form. Telex & "Telex-like" services are switched networks that link text generating and receiving machines instead of telephones. Because these services provide a switched circuit between communicating subscribers, text conversations are possible, in addition to simple message transmission, and receipt of a message by the recipient is acknowledged as part of the transmission process. Telex & Telex-like services have been very popular within the business community, particularly those businesses that require much international communications because these services are less expensive than telephone calls and provide an immediate hard copy record of messages.

Electronic mail services have only recently been available. These services are generally "store & forward" text transmission services that use a combination of public telephone and packet-switched networks to link subscribers. Electronic mail services can be accessed by most computer and terminal equipment and operate at moderate data rates, whereas telex-like services operate at low rates (50-110 bps) and generally require special terminal equipment.

### B. Telex & Telex-like Services:

#### 1. Domestic providers-

- a. Western Union Telegraph Co.  
1 Lake St.  
Upper Saddle River, NJ 07458  
(201) 825-5000

#### Telex

Switched, low-speed, half-duplex (transmit or receive only at any given moment), message transmission service; operates at 50 bps using Baudot code and requires special teletypewriter terminal equipment.

#### Telex II (TWX)

Same characteristics as Telex, except that it operates at 110 bps using ASCII code which does require a special subscriber terminal.

There are about 190,000 Telex subscribers in the U.S., 90,000 elsewhere in North America and over 1.5 million international subscribers. Telex II has about 60,000 subscribers in the U.S. and Canada. Maine

access to Telex & Telex II is directly available in the following areas:

Augusta  
Biddeford  
Brunswick  
Lewiston  
Presque Isle  
Rockland  
Waterville

Access from other parts of Maine requires either a leased telex extension line from Western Union or use of a packet network or electronic mail service that offers access to the Telex network.

2. International telex service is provided by a variety of competing carriers that offer both direct connections to foreign subscriber stations or store-and-forward service.

#### C. Electronic Mail Services:

Electronic mail services available in Maine through non-toll local telephone service are presented in Table E below.

TABLE E

#### Electronic Mail Services

Name	Provider	Access	Notes
Telemail	GTE Telenet	Augusta Bangor	Connects to international Telex & domestic Telex II
MCI Mail	MCI	statewide	
On Tyme	Tymnet	Lewiston Portland Bangor Auburn Brewer	
Easy Link	Western Union	statewide	Connects to Telex/Telex II network
Compumail	Compuserve	camden	

Service Providers:

TELEMAIL

GTE Telenet  
8229 Boone Blvd.  
Vienna, VA 22180  
(800) 835-3638

MCI MAIL

800 Boylston St.  
Prudential Center  
Suite 5005  
Boston, MA 02199  
(800) 624-2255

ON TYME

Tymshare  
20665 Valley Green Drive  
Cupertino, CA 95014  
(408) 446-6000

EASY LINK

Western Union Telegraph  
9229 LBJ Freeway  
Dallas, TX 75243  
(800) 527-5184

COMPUMAIL

Compuserve  
P.O. Box 20212  
Columbus, OH 43220  
(800) 848-8199

## APPENDIX A

### GLOSSARY

- Access line - Connection between a customer's premise and a local telephone company central office switch.
- Analog Signal - A continuously varying signal reflecting variations in message form (for example loudness of speech).
- Baud - Unit of signaling speed. The speed in bauds is the number of discrete conditions or signal elements per second.
- Baudot code - Five-bit, 32-character alphanumeric code used in transmission of information by Telex.
- Bit - The smallest unit of information in a binary system. A bit represents the choice between an on or off (one or zero) condition.
- Bps - "Bits per second", rate at which bits are transmitted.
- Central office - A telephone system switching unit with necessary equipment and operating arrangements for terminating and interconnecting subscriber lines and trunks within a given geographic area. Interconnection, or establishing the communication path between two phones or between a phone and another central office is the prime function of a central office.
- Centrex - A service embedded in central office (electronic switching) facilities that allows internal subscriber lines to be directly dialed from outside a subscriber's premises.
- Circuit-switched network - A communications network that establishes temporary direct electrical channels between two or more points in order to provide users with exclusive use of a open channel for the exchange of information.
- Conditioning - Procedures to make transmission impairments of lines lie within certain limits prescribed in a tariff, and typically used on telephone lines leased for data transmission to improve transmission speed.
- Digital signal - A discrete or discontinuous signal made up of bits in two states.
- Digital switching - Electronic switching in central or toll offices that uses time division techniques to switch voice conversations and other messages that have been converted

into digital signal form before entering the switch.

Electronic switching - Use of computers to control telephone line switching (analog switches) or as a switch (digital switches).

Exchange - A geographical area served by one or more central offices, within which the telephone company furnishes local telephone service at the exchange rates and under regulations applicable in that area, as prescribed in tariffs.

Facsimile - A system for image transmission. The image is scanned at the transmitter, reconstructed at the receiving station, and duplicated on some form of paper.

Half-duplex - A circuit designed for transmission in either direction but not both directions simultaneously.

Lata - Local Access and Transport Area. Geographic regions within the U.S.

Leased circuit - Circuit leased by user(s) for exclusive use between certain locations. The circuit is always ready for immediate use because no switching is employed. Such circuits may be point-to-point or point-to-multipoint, and are sometimes referred to as private lines.

Line switching - Switching where a discrete circuit path is set up between incoming and outgoing lines. This is in contrast to message switching or packet switching where no such physical path is established.

Local loop - That part of a communications circuit between the subscriber's equipment and equipment in the central office.

Locality - An area which does not have its own central office and is formed when an area which would otherwise constitute one exchange is divided by a state boundary. It is this additional exchange so formed, which is referred to as a locality and treated as if it were one exchange. The exchange serving a locality is its "exchange of connection".

Microwave system - Communication system utilizing electromagnetic waves in the frequency spectrum above 290 MHz (frequencies between 1 GHz and 30 GHz).

Packet switching - Transmission of data by addressed packet (group of bits including data and call control signals which is switched as a composite whole) where a transmission channel is occupied for the duration of transmission of the packet only.

Packet switched network - A network designed to carry data in the

form of packets. The packet and its format is internal to that network. External interfaces may handle data in different formats, and conversion is done by interface computer.

Paging - One-way message service that either sends a simple signal (tone) notifying the recipient of some event (telephone message, need to call office, etc) or a tone and a short text or voice message.

PBX - A private automatic branch exchange (PBX or PABX) is a local automatic telephone switch that serves stations in a business complex and is connected to the public network.

Point of presence - Interface points between telephone carriers operating within a lata and those carrying traffic between latas.

Private line - See "leased line".

Store & forward - Communications systems in which messages are received at intermediate routing points and recorded (stored). They are then retransmitted to a further routing point or to the ultimate recipient.

Telex - A dial-up telegraph service where subscribers can communicate directly and temporarily among themselves by means of start-stop equipment and switched circuits of the public telegraph network.

Trunk line - Cables or other channels containing numerous shared telephone circuits used to interconnect telephone switching centers.

WATS - Wide area telecommunications service. A service that permits a customer to use an access line to make calls to telephones in a specified zone on a dial basis at a lower cost than standard dial-up tariffs.

## APPENDIX B

## SELECTED LOCAL EXCHANGE CHARACTERISTICS

Name	Code	Co.	# lines	switch type	slc	notes
Alton	394	Con	213	EM/D	Y	
Andover	392	Con	328	EM/D		
Bethel	824	Con	851	E/D	Y	
Bremen	529	Con	464	EM/C	Y	
Brooks	722	Con	365	EM/C	Y	
Casco	627	Con	638	EM/D		
Chatham	694	Con		E/D		inc. in N. Fryeburg
Damariscotta	563	Con	2007	E/D	Y	
Eagle Lake	444	Con	437	E/D	Y	
E. Conway	939	Con		E/D	Y	inc. in N. Fryeburg
Fort Kent	834	Con	1704	EM/D	Y	
Freedom	382	Con	194	EM/D	Y	
Fryeburg	935	Con	1434	E/D	Y	
Hebron	966	Con	308	E/D	Y	
Island Falls	463	Con	587	EM/D		
Kingman	765	Con	125	EM/D		
Lee	738	Con	338	E/D		remote from Mattawaumkeag
Levant	884	Con	891	E/D	Y	
Liberty	589	Con	312	EM/D	Y	
Locke Mills	875	Con	218	E/D	Y	
Matinicus	366	Con	63	EM/D		
Lovell	925	Con	470	E/D	Y	remote from Fryeburg
Mattawaumkeag	736	Con	379	E/D		
Morrill	342	Con	570	EM/D	Y	
Naples	693	Con	892	EM/C		
New Harbor	677	Con	750	EM/D	Y	
N. Fryeburg	697	Con	257	E/D	Y	remote from Fryeburg
N. Lovell	928	Con	187	E/D	Y	remote from Fryeburg
N. Norway	527	Con	192	E/D	Y	
Palermo	993	Con	294	EM/D		
Patten	528	Con	568	EM/D		
Plymouth	257	Con	342	E/D		
Poland	998	Con	1188	E/D	Y	
Raymond	655	Con	1415	EM/C	Y	
Roxbury Pond	545	Con	115	EM/D		
St. Francis	398	Con	291	EM/D	Y	
Sheepscot	586	Con	230	E/D	Y	remote from Damariscotta
Sherman Mills	365	Con	581	EM/D		
Sidney	547	Con	567	EM/D		
Smyrna Mills	757	Con	557	EM/D		
S. Bristol	644	Con	395	EM/D		



Name	Code	Co.	# lines	switch type	slc	notes
Stockton Spr.	567	Con	456	EM/D	Y	
Swans Island	526	Con	178	EM/D		
Union	785	Con	749	EM/C		
Upton	533	Con	45	EM/D		
Washington	845	Con	369	EM/D		
W. Bethel	836	Con	181	EM/D		
W. Enfield		Con	1062	EM/D		
Carrabassett	235	Som	265	EM/C		
Rigelow	237	Som	529	EM/C	Y	
Stratton	246	Som	444	EM/D		
Kingfield	265	Som	497	EM/C		
Coburn Gore	297	Som	31	EM/D		
Smithfield	362	Som	298	EM/D		
Rome	397	Som	277	EM/D		
Embden	566	Som	180	EM/D		
Weld	585	Som	297	EM/D		
Mercer	587	Som	131	EM/D		
N New Portland	628	Som	338	EM/D	Y	
Norridgewock	634	Som	909	EM/C		
N. Anson	635	Som	512	EM/C		
Phillips	639	Som	618	EM/C		
Solon	643	Som	346	EM/D		
New Vinyard	652	Som	230	EM/D		
N. Athens	654	Som	247	EM/C		
Salem	678	Som	80	EM/D	Y	
Strong	684	Som	487	EM/C		
Newburgh	234	Unty	523	E/D	Y	
Albion	437	Unty	525	E/D	Y	
Thorndike	568	Unty	352	E/D	Y	
Unity	948	Unty	934	E/D	Y	
China	963	Chna	323	E/D	Y	remote from South China
South China	445	Chna	986	E/D	Y	
E. Vassalboro	923	Chna	317	E/D	Y	remote from South China
Gray	657	PnTr	1572	EM/C		
West Gray	428	PnTr	394	EM/C		
New Gloucester	926	PnTr	986	EM/C		
W. Gardiner	724	Cobb	572	EM/C		
Lincolnvillle	763	Lncv	660	E/D	Y	
Lincolnvillle Beach	789	Lncv		E/D	Y	remote from Lincolnvillle
Canton	597	Ox fd	285	EM/D		
Sumner	388	Ox fd	196	EM/D		
North Turner	224	Ox fd	224	EM/D	Y	
West Paris	674	Ox fd	460	EM/D		
Turner	225	Ox fd	630	EM/D	Y	
Buckfield	336	Ox fd	358	EM/D		
Bryant Pond	665	Brpd	436	EM/D	Y	

Name	Code	Co.	# lines	switch type	slc	notes
West Ripley	277	Hart	199	EM/C		
Hartland	938	Hart	962	EM/C		
Harmony	683	Hart	234	EM/C		
Exeter	379	Wpen	207	EM/D		
Jonesboro	434	Wpen	176	EM/D		
Corinna	278	Wpen	553	EM/D		
Stetson	296	Wpen	197	EM/D		
Beddington	638	Unrv	39	EM/D	Y	
Otis	537	Unrv		EM/C	Y	
Aurora	584	Unrv	202	EM/C	Y	
Litchfield	268	Cmsv	627	EM/C		
Mt. Vernon	293	Cmsv	508	EM/C		
Winthrop	377	Cmsv	1931	EM/D	Y	
East Winthrop	395	Cmsv	497	EM/D		
Leeds	524	Cmsv	240	EM/D		
Monmouth	933	Cmsv	1227	E/D	Y	
Greene	946	Cmsv	882	EM/C		
Etna	269	Hmpd	269	EM/D		
Hampden	862	Hmpd	1433	E/D		
Warren	273	Warn	820	EM/C		
Waterboro	247	Saco	174	E/D		
	247	Saco	787	EM/C		
West Buxton	727	Saco	920	EM/C		
Bar Mills	929	Saco	1597	E/D		
Denmark	452	Stan	265	EM/C		
Limington	637	Stan	440	EM/C	Y	
Standish	642	Stan	1530	EM/C	Y	
Steep Falls	675	Stan	252	EM/D	Y	
Sebago	787	Stan	714	EM/C	Y	
Acton	477	NET	206	EM/D	Y	Locality of Milton Mills NH central office
Ashland	435	NET	1221	EM/D	Y	
Augusta	622	NET	13,261	E/A	Y	
	623					
	289					
Bangor	942	NET	24,480	E/A	Y	
	945					
	947					
Brewer	989	NET	6013	EM/C	Y	
Bar Harbor	288	NET	2532	EM/D	Y	
Bath	442	NET	7634	EM/D	Y	
	443					
Georgetown	371	NET		EM/C	N	
Phippsburg	389	NET		EM/C	N	
Belfast	338	NET	3492	EM/C	Y	
Belgrade	495	NET	775	EM/D	Y	
Berwick	698	NET	1383	EM/C	Y	Locality of Somersworth NH central office
Biddeford	282	NET	13,618	EM/D	Y	

Name	Code	Co.	# lines	switch type	slc	notes
Bingham	672	NET	754	EM/D	Y	
Blue Hill	374	NET	980	EM/D	N	
Boothbay Har.	633	NET	3847	EM/C	Y	
Bowdoinham	666	NET	908	EM/D	Y	
Bradford	327	NET	451	EM/D	N	
Bridgton	647	NET	2275	EM/D	Y	
Brownville	965	NET	756	EM/D	Y	
Brunswick	725	NET	10,207	EM/D	Y	
	729					
	921					Brunswick NAS
Bucksport	469	NET	2654	EM/D	Y	
Calais	454	NET	2536	EM/D	Y	
Camden	236	NET	3536	EM/D	Y	
Caribou	492	NET	4619	EM/D	Y	
	493					
	496					
	498					
Castine	326	NET	1321	EM/D	Y	
Clinton	426	NET	791	EM/D	Y	
Corinth	285	NET	770	EM/D	Y	
Columbia	483	NET	982	EM/D	Y	
Cornish	625	NET	1813	EM/D	Y	
Cumberland	829	NET	1935	EM/D	Y	
Danforth	448	NET	634	EM/D	Y	
Dark Harbor	734	NET	494	EM/D	N	
Deer Isle	348	NET	937	EM/D	Y	
Stonington	367	NET	700	EM/D	N	
Dexter	924	NET	2046	EM/D	Y	
Dixfield	562	NET	1616	EM/D	Y	
Dover Foxcroft	564	NET	2314	EM/D	Y	
E. Millinocket	746	NET	1513	EM/D	Y	
Easton	488	NET	522	EM/D	Y	
Eastport	853	NET	1193	EM/D	N	
Eddington	843	NET	1731	EM/D	Y	
Eliot	748	NET	529	E/D	Y	Locality of Dover NH central office
Ellsworth	667	NET	4381	EM/D	Y	
Fairfield	453	NET	2972	EM/D	Y	
Farmington	778	NET	3644	EM/D	Y	
Ft. Fairfield	472	NET	1676	EM/D	N	
	473					
	476					
Franklin	565	NET	545	EM/D	Y	
Freeport	865	NET	2639	EM/D	Y	
Frenchville	543	NET	860	EM/D	Y	
Gardiner	582	NET	5537	EM/C	Y	
Goodwins Mills	499	NET	926	EM/D	N	
Gorham	839	NET	2994	EM/D	Y	
Grand Isle	895	NET	374	EM/D	Y	
Greenville	695	NET	1172	EM/D	Y	
Guilford	876	NET	1337	EM/D	Y	

Name	Code	Co.	# lines	switch type	slc	notes
Harpwell	833	NET	1446	EM/D	Y	
Harrison	583	NET	1264	EM/D	Y	
Hermon	848	NET	1712	EM/D	Y	
Houlton	538	NET	4672	EM/D	Y	
	532					
Jackman	668	NET	544	EM/D	N	
Jonesport	497	NET	953	EM/D	Y	
Kennebunk	985	NET	3129	EM/D	Y	
Kennebunkport	967	NET	2910	EM/D	Y	
Kittery	439	NET	5800	E/A	Y	Locality of Portsmouth NH central office
Lebanon	457	NET	586	EM/C	Y	
Lewiston	782	NET	27,743	E/A	Y	
	783					
	784					
	786					
Limerick	793	NET	1486	EM/D	Y	
Limestone	325	NET	2641	EM/D	N	
	328					
	999					Limestone AFB
Lincoln	794	NET	2153	EM/D	Y	
Lisbon Falls	353	NET	3713	EM/D	Y	
Livermore Fls	897	NET	3251	EM/D	Y	
Lubec	733	NET	973	EM/D	Y	
Machias	255	NET	2665	EM/D	Y	
Cutler	259	NET		EM/D	Y	
Madawaska	728	NET	2062	EM/D	Y	
Madison	696	NET	1878	EM/D	Y	
Mars Hill	425	NET	1537	EM/D	Y	
	429					
Mechanic Falls	345	NET	1043	EM/D	N	
	346					
Milbridge	546	NET	1384	EM/D	Y	
Millinocket	723	NET	3350	EM/D	Y	
Milo	943	NET	1300	EM/D	Y	
Monroe	525	NET	284	EM/D	N	
Monson	997	NET	451	EM/D	Y	
Newport	368	NET	1194	EM/D	Y	
New Sweden	896	NET	593	EM/D	Y	
N. Berwick	676	NET	1167	EM/D	N	
New Harbor	276	NET	996	EM/D	N	
N. Whitefield	549	NET	1497	EM/D	Y	
Norway	743	NET	3869	EM/D	Y	
Oakland	465	NET	2448	EM/D	Y	
Old Orchard B	434	NET	3310	EM/D	N	
Old Town	827	NET	4754	EM/D	Y	
Orono	581	NET	2483	EM/D	N	
	866					
Orrington	825	NET	1134	EM/D	Y	
Oxford	539	NET	1077	EM/D	Y	

Name	Code	Co.	# lines	switch type	slc	notes
Pembroke	726	NET	619	EM/D	N	
Pittsfield	487	NET	1771	EM/D	Y	
Portland	761	NET	51,111	E/A	Y	Some fiber optic
Portland	772					SLC
	773					
	774					
	775					
	781					
	955					
N. Deering	797	NET	7810	EM/C	Y	
Peaks Island	766	NET	1010	EM/D	N	
Falmouth	781	NET	2627	EM/C	Y	
S. Portland	767	NET	10,328	EM/D	Y	
	799					
Presque Isle	762	NET	5796	E/A	Y	
	764					
	768					
	769					
Princeton	796	NET	801	EM/D	Y	
Rangeley	864	NET	1097	EM/D	Y	
Readfield	685	NET	1423	EM/D	Y	
Richmond	737	NET	1474	EM/D	Y	
Rockland	594	NET	5565	EM/D	Y	
	596					
Rockwood	534	NET	191	EM/D	Y	
Rumford	364	NET	4936	EM/D	Y	
	369					
Sabattus	375	NET	1352	EM/D	Y	
Sanford	636	NET	9537	EM/C	Y	
	324					
Scarborough	883	NET	4670	EM/D	Y	
S. Lebanon	339	NET	319	EM/C	Y	Locality of Rochester NH central office
Searsport	548	NET	884	EM/D	N	
Sedgwick	359	NET	758	EM/D	Y	
Skowhegan	474	NET	4489	EM/D	Y	
S. Berwick	384	NET	1370	E/A	Y	
Pownal	688	NET	395	EM/D	N	
SW Harbor	244	NET	2455	EM/D	Y	
Sullivan	422	NET	1069	EM/D	Y	
Tenants Harbor	372	NET	978	EM/D	Y	
The Forks	663	NET	81	EM/D	N	
Thomaston	354	NET	1552	EM/D	Y	
Van Buren	868	NET	1392	EM/D	N	
Vanceboro	788	NET	136	EM/D	Y	Locality of McAdam, N.B. central office
Vinalhaven	863	NET	1059	EM/D	N	
	867					
Waldoboro	832	NET	2066	EM/D	Y	
Washburn	455	NET	885	EM/D	Y	

Name	Code	Co.	# lines	switch type	slc	notes
Waterville	872 873	NET	10,944	E/D	Y	
Wells	646	NET	5158	EM/D	Y	
Westbrook	854 856	NET	5434	EM/D	N	
West Lebanon	658	NET	229	EM/D	Y	Locality of Milton NH central office
Wilson's Mills	486	NET	50	EM/D	Y	Locality of Errol NH central office
Wilton	645	NET	2122	EM/D	Y	
Windham	892	NET	5444	EM/D	Y	
Winter Harbor	963	NET	1162	EM/D	Y	
Winterport	223	NET	1061	EM/D	Y	
Wiscasset	882	NET	1995	EM/D	Y	
Woodland	427	NET	735	EM/D	N	
Wytöpitlock	456	NET	104	EM/D	Y	
Yarmouth	846	NET	3337	EM/D	Y	
York	363	NET	4581	EM/C	Y	

**CABLE SYSTEMS DESCRIPTION**

**COMPANY: Bee Line Inc.**  
Lakewood Rd.  
Skowhegan, ME 04976  
(207) 474-2727

Communities Served: Skowhegan

Subsidiary of: Cable Group Ownership

Channel Capacity: 12

Unused Channels: 1

Cable Miles: 25

Number of Subscribers: 3032

Two-way Potential: N

**COMPANY: Bee Line Inc.**  
232 Penobscot Ave.  
Millinocket, ME 04462  
(207) 723-4455

Communities Served: Millinocket, East Millinocket

Subsidiary of: Cable Group Ownership

Channel Capacity: 12

Unused Channels: 4

Cable Miles: 30

Number of Subscribers: 3156

Two-way Potential: Y

COMPANY: Bee Line Inc.  
Lakewood Road  
Skowhegan, ME 04976  
(207) 474-2727

Communities Served: Madison, Anson

Subsidiary of: Cable Group Ownership

Channel Capacity: 12

Unused Channels: 1

Cable Miles: 10

Number of Subscribers: 875

Two-way Potential: N

COMPANY: Bee Line Inc.  
Lakewood Rd.  
Skowhegan, ME 04976  
(207) 474-2727

Communities Served: Farmington, Wilton

Subsidiary of: Cable Group Ownership

Channel Capacity: 12

Unused Channels: 2

Cable Miles: 23

Number of Subscribers: 1805

Two-way Potential: N



COMPANY: Better Cable TV  
Box 284  
Waterville, ME 04901  
(202) 873-3400

Communities Served: Waterville, Benton, Clinton, Fairfield, Oakland,  
Vassalboro, & Winslow

Subsidiary of: Cable Group Ownership

Channel Capacity: 12

Unused Channels: 0

Cable Miles: 72

Number of Subscribers: 9439

Two-way Potential: N

COMPANY: Better Cable TV  
Box 284  
Waterville, ME 04901  
(207) 873-3400

Communities Served: Pittsfield

Subsidiary of: Cable Group Ownership

Channel Capacity:

Unused Channels:

Cable Miles:

Number of Subscribers: 1041

Two-way Potential: N

COMPANY: Cable TV of the Kennebunks  
RR #1, Box 317  
Kennebunk, ME 04046  
(207) 967-5212

Communities Served: Kennebunk, Kennebunkport, & Arundel

Subsidiary of: n/a

Channel Capacity: 35

Unused Channels: 7

Cable Miles: 80

Number of Subscribers: 1959

Two-way Potential: Y

COMPANY: Cablevision of Knox County  
84 Camden St.  
Rockland, ME 04841  
(207) 596-6622

Communities Served: Rockland, Camden, Owls Head,  
Rockport, Thomaston, & Warren

Subsidiary of: Cable Group Ownership

Channel Capacity: 35

Unused Channels: 24

Cable Miles: 107

Number of Subscribers: 4427

Two-way Potential: Y

COMPANY: Cable Vision Inc.  
720 Sabattus St.  
Lewiston, ME 04240  
(207) 783-2023

Communities Served:

Lewiston, Auburn, Lisbon, Mechanic Falls, Oxford,  
Sabattus

Subsidiary of: Cable Group Ownership

Channel Capacity: 12

Unused Channels: 1

Cable Miles: 170

Number of Subscribers: 15,466

Two-way Potential: N

COMPANY: Casco Cable Television Inc.  
16 Union St.  
Brunswick, ME 04011  
(207) 729-6663

Communities Served: Brunswick, Bath, Topsham, & West Bath

Subsidiary of: Susquehanna Co.

Channel Capacity: 35

Unused Channels: 12

Cable Miles: 110

Number of Subscribers: 5499

Two-way Potential: Y

**COMPANY: Casco Cable Television of Bath**  
31 Oak Grove Ave.  
Bath, ME 04530  
(207) 443-2231

Communities Served: Bath

Subsidiary of: Susquehanna Co.

Channel Capacity: 30

Unused Channels: 8

Cable Miles: 39

Number of Subscribers: 2674

Two-way Potential: Y

**COMPANY: Coastal Cable Corp.**  
Bldg 278, Florida Ave.  
Bangor, ME 04401  
(207) 942-4661

Communities Served: Bangor, Brewer, Bar Harbor, Belfast, Bradley, Buck  
port, Corinna, Dexter, Dover-Foxcroft, Ellsworth,  
Hampden, Lincoln, Newport, Searsport, & Veazie

Subsidiary of: Cable Group Ownership

Channel Capacity: 20

Unused Channels: 3

Cable Miles: 266

Number of Subscribers: 10,331

Two-way Potential: N

COMPANY: Continental Cablevision of N. H. Inc.  
294 Main St.  
Saco, ME 04072  
(207) 282-5916

Communities Served: Saco, & Old Orchard Beach

Subsidiary of: Cable Group Ownership

Channel Capacity: 28

Unused Channels: 8

Cable Miles: 94

Number of Subscribers: 5825

Two-way Potential: Y

COMPANY: County Cablevision Inc.  
Box 230, 757 W. Main St.  
Madawaska, ME 04756  
(207) 728-6321

Communities Served: Madawaska, Fort Kent, & Frenchville

Subsidiary of: Cable Management Ltd.

Channel Capacity: 12

Unused Channels: 1

Cable Miles: 27

Number of Subscribers: 2940

Two-way Potential: N

COMPANY: D. B. TV Inc.  
19 Court St.  
Houlton, ME 04730  
(207) 532-3697

Communities Served: Oakfield, Danforth, Dyer Brook, Merrill, & Smyrna

Subsidiary of: n/a

Channel Capacity: 7

Unused Channels: 2

Cable Miles: 2

Number of Subscribers: 1209

Two-way Potential: N

COMPANY: DowCom Inc.  
c/o Clarence B. Dow, Jr., Box 969  
Van Buren, ME 04736  
(207)

Communities Served: Medway

Subsidiary of: Cable Group Ownership

Channel Capacity:

Unused Channels:

Cable Miles:

Number of Subscribers:

Two-way Potential: N.

COMPANY: Group W Cable Inc.  
272 Main St.  
Caribou, ME 04736  
(207) 493-3396

Communities Served: Caribou, Fort Fairfield, Limestone, Presque Isle,  
&  
Loring AFB

Subsidiary of: Cable Group Ownership

Channel Capacity: 52

Unused Channels: 25

Cable Miles: 156

Number of Subscribers: 7573

Two-way Potential:

COMPANY: Houlton Cable TV  
Bangor St.  
Houlton, ME 04730  
(207) 532-2579

Communities Served: Houlton, & Hodgdon

Subsidiary of: Cable Group Ownership

Channel Capacity: 30

Unused Channels:

Cable Miles: 28

Number of Subscribers: 2087

Two-way Potential: Y

COMPANY: Maine Cable Co.  
17 Park St.  
Milo, ME 04463  
(207) 943-7323

Communities Served: Milo

Subsidiary of: Cable Group Ownership

Channel Capacity: 35

Unused Channels: 23

Cable Miles:

Number of Subscribers: 582

Two-way Potential:

COMPANY: Moosehead Enterprises Inc.  
Main St.  
Greenville, ME 04441  
(207) 695-3337

Communities Served: Jackman, & Moose River

Subsidiary of: Cable Group Ownership

Channel Capacity: 12

Unused Channels: 6

Cable Miles:

Number of Subscribers: 366

Two-way Potential:



COMPANY: Moosehead Enterprises Inc.  
Main St.  
Greenville, ME 04441  
(207) 695-3337

Communities Served: Guilford

Subsidiary of: Cable Group Ownership

Channel Capacity: 12

Unused Channels: 2

Cable Miles:

Number of Subscribers: 255

Two-way Potential:

COMPANY: New England Cablevision Inc.  
Box A  
Sanford, ME 04073  
(207) 324-3777

Communities Served: Sanford, Biddeford, & Springvale

Subsidiary of: Cable Group Ownership

Channel Capacity: 30

Unused Channels:

Cable Miles: 127

Number of Subscribers: 9019

Two-way Potential:

**COMPANY:** New England Cablevision Inc.

Kimball Lane, Box 475

Moody ME 04054

(207) 646-4576

Communities Served: Wells, Moody, N. Berwick, Ogunquit, & York.

Subsidiary of: Cable Group Ownership

Channel Capacity: 52

Unused Channels: 18

Cable Miles: 200

Number of Subscribers: 3645

Two-way Potential: Y

**COMPANY:** Northern Cable TV Inc.

16 Summitt St.

Caribou, ME 04736

(207) 496-4123

Communities Served: Eagle Lake

Subsidiary of: n/a

Channel Capacity: 35

Unused Channels:

Cable Miles:

Number of Subscribers: 241

Two-way Potential:

**COMPANY: Pine Tree Cablevision Associates**  
101 Water St.  
Eastport, ME 04631  
(207) 853-2556

Communities Served: Eastport, East Machias, Lubec, & Machias

Subsidiary of: Consolidated Communications Corp.

Channel Capacity: 36

Unused Channels:

Cable Miles: 55

Number of Subscribers: 2000

Two-way Potential: Y

**COMPANY: Pleasant Ridge Cablevision Inc.**  
c/o Assessors Office, Pleasant Ridge  
Bingham, ME 04920  
(207) 672-3738

Communities Served: Pleasant Ridge Plantation

Subsidiary of:

Channel Capacity: 12

Unused Channels: 3

Cable Miles:

Number of Subscribers: 35

Two-way Potential:

COMPANY: Public Cable Co.  
118 Johnson Rd.  
Portland, ME 04104  
(207) 775-3431

Communities Served: Portland, Cape Elizabeth, Falmouth, Gorham,  
Scarborough, & South Portland

Subsidiary of: Cable Group Ownership

Channel Capacity: 30

Unused Channels:

Cable Miles: 527

Number of Subscribers: 30, 400

Two-way Potential: Y

COMPANY: Saco River Communications Corp.  
Box 408  
Bar Mills, ME 04004  
(207) 929-5171

Communities Served: Buxton, Hollis, Waterboro

Subsidiary of: Saco River Telephone & Telegraph Co.

Channel Capacity: 36

Unused Channels: 6

Cable Miles:

Number of Subscribers: 1721

Two-way Potential:

COMPANY: St. Croix TV Inc.  
30 North St., Box 274  
Calais, ME 04619  
(207) 454-2189

Communities Served: Calais, Woodland, & Baileyville

Subsidiary of: n/a

Channel Capacity: 12

Unused Channels: 7

Cable Miles: 41

Number of Subscribers: 1747

Two-way Potential:

COMPANY: State Cable TV Corp.  
26 Oxford Ave.  
Rumford, ME 04276  
(207) 364-8802

Communities Served: Norway, & South Paris

Subsidiary of: Cable Group Ownership

Channel Capacity: 12

Unused Channels: 1

Cable Miles: 31

Number of Subscribers: 1146

Two-way Potential:

COMPANY: State Cable TV Corp.  
26 Oxford Ave.  
Rumford, ME 04276  
(207) 364-8802

Communities Served: Rumford, Dixfield, Mexico, & Peru

Subsidiary of: Cable Group Ownership

Channel Capacity: 12

Unused Channels: 0

Cable Miles: 71

Number of Subscribers: 4475

Two-way Potential:

COMPANY: State Cable TV Corp.  
26 Oxford Ave.  
Rumford, ME 04276  
(207) 364-8802

Communities Served: Livermore Falls, Jay, & Livermore

Subsidiary of: Cable Group Ownership

Channel Capacity: 20

Unused Channels: 9

Cable Miles: 39

Number of Subscribers: 1795

Two-way Potential:

**COMPANY:** State Cable TV Corp.  
187 Water St.  
Augusta, ME 04330  
(207) 623-5145

**Communities Served:** Augusta, Chelsea, Farmingdale, Gardiner, Pittston,  
Hallowell, Manchester, Randolph, West Gardiner, &  
Winthrop

**Subsidiary of:** Cable Group Ownership

**Channel Capacity:** 21

**Unused Channels:** 3

**Cable Miles:** 202

**Number of Subscribers:** 11,109

**Two-way Potential:** N

**COMPANY:** Tel-Tech Cable TV Inc.  
16 Summit St.  
Caribou, ME  
(207) 496-2281

**Communities Served:** Washburn

**Subsidiary of:** Cable Group Ownership

**Channel Capacity:** 12

**Unused Channels:**

**Cable Miles:**

**Number of Subscribers:** 358

**Two-way Potential:**

COMPANY: Tel-Tech Cable TV Inc.  
16 Summit St.  
Caribou, ME  
(207) 496-2281

Communities Served: Mapleton

Subsidiary of: Cable Group Ownership

Channel Capacity: 12

Unused Channels:

Cable Miles: 3

Number of Subscribers: 208

Two-way Potential:

COMPANY: United Video Cablevision  
Box 1660, Route 302  
North Windham, ME 04067  
(207) 892-8359

Communities Served: Freeport

Subsidiary of: Cable Group Ownership

Channel Capacity: 54

Unused Channels: 14

Cable Miles:

Number of Subscribers: 1055

Two-way Potential:



**COMPANY:** Van Buren TV Cable Co.  
16 Summit St.  
Caribou, ME 04736  
(207) 496-2281

Communities Served: Van Buren

Subsidiary of: Cable Group Ownership

Channel Capacity: 12

Unused Channels: 4

Cable Miles: 14

Number of Subscribers: 1044

Two-way Potential:

**COMPANY:** Warner Cable of Patten/Island Falls  
Box 450  
Island Falls, ME 04747  
(207) 463-2217

Communities Served: Patten & Island Falls

Subsidiary of: Warner Amex Cable Communications

Channel Capacity: 12

Unused Channels: 5

Cable Miles: 7

Number of Subscribers: 299

Two-way Potential:

COMPANY: Westbrook Cablevision  
838 Main St.  
Westbrook, ME 04092  
(207) 854-8484

Communities Served: Westbrook, Cumberland, & Yarmouth

Subsidiary of: Cable Group Ownership

Channel Capacity: 36

Unused Channels: 10

Cable Miles: 65

Number of Subscribers: 3599

Two-way Potential: Y

COMPANY: X-Cel Communications Inc.  
Sheepscot Rd.  
Newcastle, ME 04553  
(207) 563-8444

Communities Served: Wiscasset, Alna, Darmariscotta, Edgecomb, Newcastl  
Nobleboro, & Waldoboro

Subsidiary of: n/a

Channel Capacity: 36

Unused Channels:

Cable Miles: 45

Number of Subscribers: 620

Two-way Potential: Y

HE 7791 M2 C525 1985  
Chaisson, Joseph M.  
An inventor of Maine's  
telecommunications system

**DATE DUE**  
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